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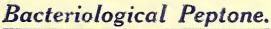
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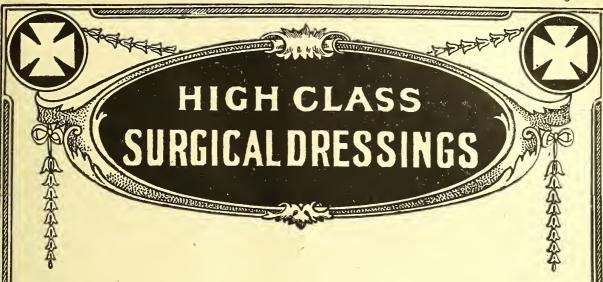


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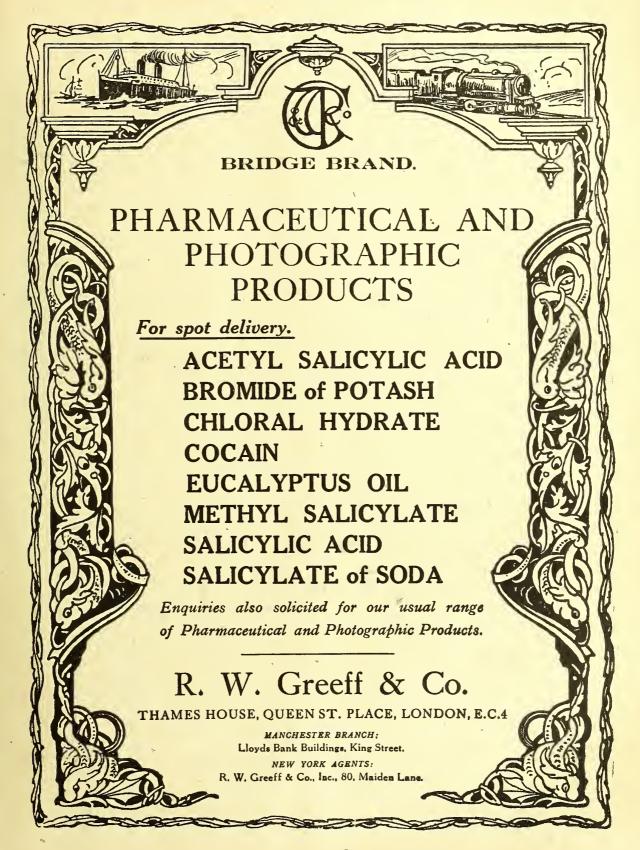
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Make a point of getting particulars of exceptionally attractive display terms. It is really worth while.

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THE

# 100% Stands, N<sup>os.</sup> 84 & 61

Ask about our special Exhibition Parcels of

**OSYL TOOTH PASTE** 

1/- size.

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71 d. size.

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EDITION



#### An Invitation

One of the events of the coming week is the Chemists' Exhibition, to be held at the Northampton Institute, Finsbury, London, from July 14-18 inclusive. It should attract a large number of pharmacists.

#### OUR SHOW.

The other event is the 'pecial July Display we are organising in our Showrooms (a complete exhibition in them selves), where an inspection cannot but fail to impress an observant mind that a pharmacy equipped with "House of Maw" Lines ensures a satisfied and growing clientèle. Everywhere and in everything quality is manifest.

#### FOR ALL PURPOSES.

Whether for the dispensing counter, sick room, or ordinary counter trade every production is of one standard—The Best.

No visit to Town is complete without becoming thoroughly acquainted with all the latest propositions awaiting your inspection at "Maw's, The House of the Moment."

Make a note to call during your stay in Town. A tram to the "Angel," Islington, from the Exhibition, and a Service 4 'bus from there will put you down outside our doors.

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An interesting feature of our Showrooms is a model full-size shop window which always offers unlimited suggestions in the art of attractive and up-to-date silent salesmanship. At the moment it is devoted to Baby Welfare. The central idea is a large hanging red disc, which forms a striking background to a "Eugenic" Sterilizer. The window is draped in appropriate pink and blue material. Infant requirements are displayed in a way that constitutes an idea for every pharmacist who appreciates the value of window dressing.

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like our reputation, is per-manent.

Discus

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Put up complete in neat art grey cardboard box, as illustrated.

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BRITISH

The 'ERA'
THROAT and NOSE
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MAW'S PAGE

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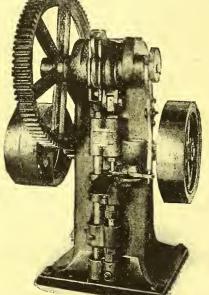
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(Adjoining)

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Regd.

AT THE

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# Chemists' Exhibition.

TWENTIETH THFCHEMISTS' EXHIBITION

will be held in

The Northampton Polytechnic Institute, St. John Street, CLERKENWELL, E.C.,

Monday the 14th July to Friday the 18th July inclusive.

Look for us at

STAND No. 63.

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AT THE

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# **Tickets**

# The Place

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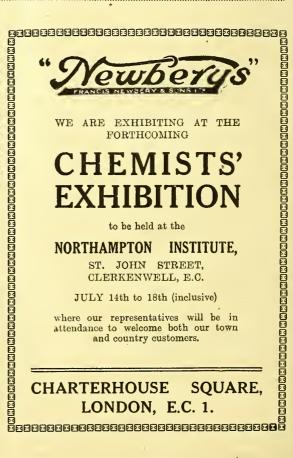
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OUR WINDOW- 3 Doz. @ 1/9 Free ...
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With Dummies and Show.

3 Doz. @ 1/-9 Free ... ... ... ... ... ... 9 Returns ... ... £2 5 Outlay ... £1 7 NET PROFIT 663% 18 (

THE BALDWIN MFG. CO., Ltd., 95 Wigmore St., London, W. 1.

-

# The two quick **SELLING LINES** with a good profit.

ANZORA CREAM for those who have a slightly greasy scalp, and

ANZORA VIOLA for those who have a dry scalp as it has a sufficient quantity of Anzora Oil of Violets to overcome scurf and dandruff, both

#### MASTER THE HAIR.

TRADE | 11/6 per dozen ... retailed at 18/-TERMS \ 19/6 ... ... 30/-... • • •

2½% discount on orders of 3 doz., and 5% discount on orders of 6 doz., providing account is settled monthly.

Obtainable from all Wholesalers.

Showcards on request.

Anzora Perfumery Co., Willesden Lane, N.W. 6.

#### LIMITED

beg to announce the following alterations to the Retail Prices of their

#### SWEET PEA BLOSSOM, NIGHT-SCENTED STOCK.

&c. &c.

Old Prices -/5 2/3 3/6 5/- 7/- 15/- 30/-New Prices -/6 2/6 4/- 5/9 8/3 17/6 35/-

#### EAU DE COLOGNE.

Old Prices 1/3 2/6 4/6 7/9 8/6 14/6 27/6 New Prices 1/6 3/6 6/6 11/- 12/6 21/- 40/-

N.B.—There has been no alteration to the Wholesale or Retail Prices of

ZENOBIA Lily of the Valley.

A complete list of prices will be forwarded on application.

ZENOBIA Ltd., MANUFACTURING PERFUMERS, LOUGHBOROUGH.



Nail Paste Ruby Cosmetique 1/-



Nail Powder, 1/-







Nail Stone, 9d.

Doz. 6/-6/-8/-Amami Nail Stones ... 6/Amami Nail Crayons ... 6/Amami Nail Paste ... 8/Amami Nail Powder ... 8/Amami Nail Varnish ... 12/-

QUICK SELLING LINES.

Amami Cuticle Cream 8/Amami Ruby Cosmetique 8/Amami Cleansene 8/Amami Orange Sticks... 12/Amami Emery Boards 12/-BONUS of 10|- worth of goods on £5 orders (Wholesale Prices). Carriage Paid. Cases Free. Send for a £5 assortment and get a profit of 65% on outlay.

PRICHARD & CONSTANCE (Whol.), Ltd., 469 Holloway Rd., N.7



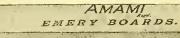
Cuticle Cream,1/



Nail Varnish, 1/6

AMAMI ORANGE STICKS

LONDON.



GOOD PROFITS.

MODINO!

Orange Sticks, 1/6

Emery Boards, 1/6 



Look for the Name and Trade Mark.

# ANTISEPTIC BABY POWDER

MANUFACTURED BY

We wish to warn our Customers, so that they may be on their guard, that our package is being imitated. This step, which is so easy, is an undignified and shabby attempt to rob us of our goodwill.

The contents cannot be imitated, and the Trade Mark cannot be imitated; and we would ask those Customers who have

handled this preparation for a quarter of a century, with every satisfaction to themselves and to their clients, to resent this method of copying other firms' productions by insisting on having the original package bearing the registered Trade Mark, which is the guarantee of quality.

> JOHN TIMPSON & CO., Ltd., 104 Golden Lane. LONDON, E.C.

# IT PAYS to sell "OKOS" Tooth Powder

A wonderfully fine Tooth Powder with a refreshing Mint Flavour.

"OKOS" retails at 72D. per tin

PER GROSS

15 DOZEN to the GROSS.



71

To introduce "OKOS" to the To introduce "OKOS" to the Trade, we are offering 15 doz. to the gross, carriage paid, for cash with order, until further notice.

Smaller Orders through your wholescless.

wholesaler.

"OKOS" is being well adver-"OKOS" is being well advertised—you are sure to be asked for "OKOS"—don't disappoint a customer, get your stock in NOW. "OKOS" is beautifully put up under attractive labels and cartons, dummies of which we will supply for Window Display on request.

Sole Proprietors-MIDLAND THE WHOLESALE,

2 Regent Place, Leamington Spa. London Agent—A. R. ANDREW, 6 LOVE LANE, WOOD STREET, E.C.

Showcard, printed in colours supplied FREE.

SALES ALL RECORDS.

KEEPS AWAY LASTING & FRAGRANT.

PERFUME BRICK

FOR LINEN CUPBOARD AND WARDROBE. Retail Price, 6d.

Of the Makers:

ALBERT WILLIS & ARTHUR, Ltd. 6 Mortimer St., London, W.

AND ALL WHOLESALERS.

# POUDRE NILDÉ

in the sifter box.

Appeals irresistibly to every woman. The quickest selling line of face powder ever shown.

Minimum Selling Prices:

# POUDRE NILDÉ

in the sifter box

SMALL SIZE, for the handbag - 1/LARGE SIZE - - - - 3/6
Leather or fancy silk vanity cases, small size, with mirror - - - 4/6
LARGE SIZE - - - - - 9/-

## ROUGE INVISIBLE NILDÉ

in the sifter box.

SMALL SIZE - - - - 1/6
IN LEATHER CASE - - 5/~

SHOWS YOU 331 % PROFIT.

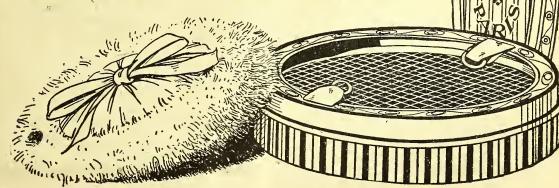
Through your wholesale house.

EACH BOX CONTAINS A PUFF

NILDÉ, PARIS

British & Colonial Agents:

8 Blenheim Street, London, W. 1.



# TRADE NOTICE.

In consequence of the great increase in the cost of the production, distribution, etc., of the undermentioned articles controlled by us, the Proprietors have been reluctantly obliged to establish the following prices which took effect on JUNE 1, 1919.

Minimum Retail Price per bottle.	Minimum Wholesale Price per doz. net.
4/6	43/-
3/6	32/-
2/6	23/-
3/6	32/-
2/6	22/-
2/3	18/-
	Price per bottle.  4/6  3/6  2/6  3/6  2/6  2/6

These preparations are on the P.A.T.A. Protected List.

S. R. VAN DUZER & SON, 114/116 SOUTHAMPTON ROW, LONDON, W.C. 1.



SAMPLES AVAILABLE.

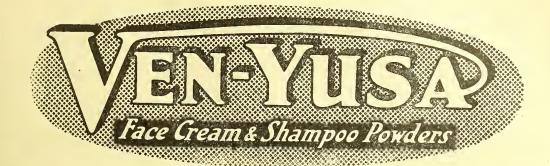
C. A. STOKES & CO., Ltd., 11 Eclipsol Works, BRISTOL.

FACE CREAM. TOOTH POWDER. NAIL POLISH
"POWDER. "PASTE. HAIR CREAM
BRILLIANTINE, Solid and Liquid. PERFUMES
VIOLET POWDER. TALCUM. TOILET OATMEAL
SHAMPOO POWDER & LIQUID. MASSAGE CREAM

Your own formula prepared, or we can supply ingredients if desired.

Send for samples and quotations.

A. CONNELL & CO., 3 Jewry Street, LONDON, E.C. 3
PHONE-AVENUE 1945.



# SPECIAL WINDOW-SHOW OFFER

VOU purchase an assorted parcel of Ven-Yusa
Cream Soap, and Shampoo Powders value
WE allow you for Showing Cards ... ... 0 5 9

Net Credit Terms
FCASH ENGLOSED deduct 2½ per cent. ... 0 1 3

Net amount to send

SE2 3 0

# YOUR PROFIT on the Investment will be 50%

Larger Orders are accepted on pro-rata terms,  $2\frac{1}{2}\%$  extra allowed on orders of 12 times above quantities, if cash with order.

MINIMUM PRICES FACE VALUE.

# ORDER FORM.

To Messrs. C. E. FULFORD, LTD., Carlton Hill, LEEDS.

	Date	
Dear Sirs,		
Please supply on Window-Sh	ow Terms—	£ s. d.
Gross Doz. 1/- size Ven-Yusa	Cream @ 9/3 doz.	
G. ossDoz. 6d. ,, ,,	Soap @ 4/6 ,,	
GrossDoz. 1/6 ,, ,,	Shampoo Powders 13/6 ,, (7 3d. Shampoos in packet)	
GrossD z. 3d. packets ,,	Shampon Powders, 22/- gross (6 doz. Cartons only)	
Remittance enclosed £ :	:	
Name and Address	***************************************	*************

#### MINIMUM PRICES FACE VALUE.

Note.—If Cash does not accompany order, references should be given for New A/cs. Credit Terms are Strictly Net, 30 days.

# 

	per de
White Celluloid	$8 \times 1^{\frac{3}{4}}$ in. $7/6$
Black ,,	$8 \times 1^{\frac{3}{4}}$ in. $7/6$
Blonde, non-inflammable	$6\frac{1}{2} \times 1\frac{1}{2}$ in. 9/-
Imitation Tortoiseshell	$6\frac{1}{2} \times 1\frac{1}{4}$ in, 12/-
Ivory White, grailled teeth	$8 \times 1^{\frac{5}{4}}$ in. 24/-
Black, grailled teeth	$8 \times 1\frac{3}{4}$ in. 24/-
Ivory White, all coarse,	
grailled teeth	$8 \times 1_4^3$ in. 24/-
Ivory White, with handle, ,,	$8 \times 1\frac{3}{4}$ in. <b>24</b> /-
Real Horn, roach back	$8 \times 1\frac{1}{2}$ in. 24/-
SPECIAL LINE, Black	
Celluloid, all coarse teeth	$7\frac{1}{2} \times 1\frac{1}{4}$ in. 11/-

		per doz
Amber, non-inflammable	$7 \times 1$ in.	8 6
All Vulcanite	$7 \times 1$ in.	10/6
Grey Mottled, non-inflammable	$6 \times 1$ in.	12/-
,		

White,	non-inflamm:	able	3 in.	5/6;	<b>7</b> /	
Blonde	,,			$3\frac{1}{2}$ in.	7/	6
Black	,,			3 in.	7/	6

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# TOOTH PASTE

STRONG" OR "MILD"

The Super Paste

If your wholesaler has not sent you sufficient advertising matter for window display, drop us a postcard and we will send you a good assortment, post free.

SOLE MANUFACTURERS & PROPRIETORS:

A. & E. CARRERAS, Perfumers,

Offices: 207 King St., Hammersmith, London, W.6.

Telephone: HAMMERSMITH 600 Telegrams:

ESOLINDOL, HAMMER, LONDON."



Your Customers will insist on the

Evan Williams' HENNA

# SHAMPOO

having been taught by experience. Are you ready to meet their demands? Stock moves freely at a handsome profit.

Full particulars are included in The SHAMPOO SALESMAN, which is sent free on request.

The EVAN WILLIAMS CO., LTD. 18 & 18a, Ogle St., Foley St., London, W.1

# FEATHEREDGE Rubber Sponges

LARGE STOCKS ARRIVING

**THOROUGHLY** SANITARY AND DO NOT



**—** 

HARDEN

Very

GOOD **PROFITS** 

21

for the Retailer

-0-

**OBTAINABLE** OF ALL DRUGGISTS'

SUNDRIES HOUSES

# Markt & Co., London,

American Merchants. SOLE IMPORTERS. 98-100 CLERKENWELL RD., LONDON, E.C.

# Keep German Aspirin ff the British

by ensuring the QUALITY of the Tablets you sell. You will get the lowest price consistent with the highest quality by always specifying Tablets prepared from the finest re-crystallised Aspirin manufactured by Pierson, Morrell & Co., Ltd., the ORIGINAL BRITISH ASPIRIN MAKERS. Order your Tablets from Messrs. H. & T. Kirby & Co., Ltd., Willesden Green, N.W.2. or direct from us, and so be sure of getting

FINEST QUALITY made from Aspirin, M.P., 135-137°, and absolutely free from Salicylic Acid.

ACCURACY IN CONTENT guaranteed 5 grains Aspirin in each Tablet.

RAPID DISINTEGRATION in water

Will you get these essentials in a cut-price Tablet?

&

The Odourless Adeps Lanæ, B.P. Manufactured by THE LONDON PHARMACEUTICAL REFINERS, LIMITED, Martin's Yard, Endwell Road - LONDON, S.E. 4.

In a leading article in the "Medical Press" of June 26, 1918, occurs the following:-"I hope that the same effort will be made to abolish Hun drugs as to get rid of Hun dyes. In one direction I am glad to find that this is being scriously attempted. One of the most important bases for ointments is lanoline. Now the English lanoline which is made by the London Pharmaceutical Refiners, Limited, of Brockley, has the merit of being superior to the old German lanoline. The B.P. allowance of fatty acids is 7, whereas this new English lanoline shows only '27. The new preparation is quite odourless, and acid fats do not develop in it by keeping. These are great merits, and show the extreme care with which the refining process has been carried out by the British refiners."

Samples and Quotations from the Selling Agents: THE PRODUCE BROKERS' COMPANY, LIMITED, 24 St. Mary Axe, LONDON, E.C. 3. 

THE FINEST BRITISH LANOLINE PRODUCED

IS MANUFACTURED BY

THE PHARMACEUTICAL LANOLINE

7 Carnwath Road, Fulham, London, S.W.

WHO INVITE INQUIRIES.

# WARNING

# "THERMOGENE" Curative Wadding

ON the 23rd May, 1919, a perpetual injunction was granted in the High Court of Justice against a Provincial Chemist from selling, in response to orders for "Thermogene" wadding, a wadding which was not of the manufacture of The Thermogene Co., Ltd., and from selling or offering for sale, or in any manner passing off wadding or wool not of the manufacture of The Thermogene Co., Ltd., as and for that Company's wadding or wool, and the defendant was ordered to pay damages and costs.

Whilst we have refrained, in this instance, from giving the defendant's name, our action must not be regarded as a precedent.

In the event of a similar offence, we should have no option but to publish it.

THE THERMOGENE CO., LTD., Haywards Heath.

# **BUY YOUR GLASS FROM STOCK**

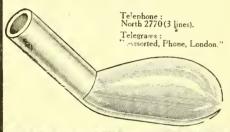


We cannot stock everything, but we can safely say that we have stock of the most saleable lines, including vials.





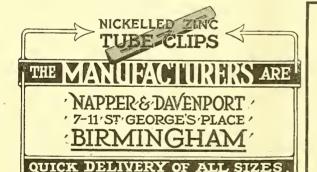
<sup>1</sup>/<sub>2</sub> oz., 1 oz. & 2 oz.



# JULES LANG & SON,

CHARLTON WORKS. CHARLTON PLACE,
(Opposite Agricultural Hall) ISLINGTON, LONDON, N.

Warehouses also at Barnsbury and off City Road.



QUANTITY LINES SPECIALLY LETTERED IF REQUIRED

# REAL SILVER LEAF

As supplied for many years to the leading Houses for Pills, Cachous, &c.

We also supply

GOLD LEAF AND GOLD POWDERS

WHOLESALE ONLY.

E. WINTER & CO. LTD.

Head Office: 64 Cheapsi e, London, E.C. 2.

TELEPHONE: Central 985

# Rod-Stoppered Essence Bottles FRANK A. CONF

FRANK A. CONDUIT, SUTTON HOUSE, 2 OLD STREET, LONDON, E.C. 1.

# ANGIER SEEMULSION

In taking this opportunity of conveying to the Wholesale and Retail Trade our appreciation of the courteous and patient consideration extended to us throughout the trying period of shortage, it is with much satisfaction we are able to announce that supplies of Angier's Emulsion now enable us to execute normal orders to meet our customers' immediate requirements.

Just as soon as a sufficient reserve stock of Angier's Emulsion has been accumulated advertising will be greatly augmented and our customers will then be advised to anticipate their requirements well in advance, in the full confidence that consequent increasing demand for Angier's Emulsion is a sure guarantee against dormant stock.

# ANGIER'S THROAT TABLETS.

We regret to announce that the shortage of Angier's Throat Tablets still continues, and for the present we are unable to execute orders for same.

FASSETT & JOHNSON, LTD., 86, Clerkenwell Road, London, E.C.1.

# EGIO (Reg. No. 291417) ALL S The second of the second o

BUGS, FLEAS, MOTHS, BEETLES, etc.

NO DISAPPOINTMENT WHEN 'SECTO' IS USED.

3d. Tins, 2/3 per doz.

6d. Tins, 4/- per doz.

1/- Tins, 8/- per doz.

(Subject to our usual profit-sharing discount.)
SHOWCARDS, WINDOW BILLS, etc., Supplied.

CUPAL Ltd., BLACKBURN.

The British Cyanides Company, Limited,

Sales Office: 49 Queen Victoria Street, London, E.C. 4.
Telegrams: "Cyanobrit, Cannon, London." Telephone: Central 6273 (2 lines)

# POTASH

COMPOUNDS

Manufactured in England from English Potash.

PERMANGANATE | YELLOW PRUSSIATE | RED PRUSSIATE | OF POTASH. OF POTASH.

Orders for less than 100 lb. not accepted by us.



# A Weekly Journal of Pharmacy and of the Chemical and Drug Trades.

ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists and Druggrists' Society of Ireland, and of many Chemists' Societies in Australia, New Zealand and South Africa.

SUBSCRIPTION RATES.

FIFTEEN SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chem st and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single Copy. 6d.; Diary 3s. 6d. post free, Postal orders and cheques should be crossed "Eank of Liverpool and Martin's Ltd."

Data 3t.

Prix de l'abonnement annuel; le journal une fois par semaine, et l'agenda une fois par an. 15s., franco. Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año 15 ch., franco.

Terms for advertising may be obtained on application to the Publisher Head Office: 42 CANNON STREET, LONDON, E.C. 4. Telegrams: "Chemicus Cannon, London." Telephone Central 3617 (three lines). Branch Offices: MELBOURNE AND SYDNEY, AUSTRALIA.

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# Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

# Monday, July 14.

Chemists' Exhibition, Northampton Polytechnic Institute, St. John Street, Clerkenwell, London, E.C. Opens at 11 a.m. and remains open until 9 r.m. daily up to July 18.

# Tuesday, July 15.

Society of Chemical Industry, Mansion House, London, E.C. At 11 A.M., annual general meeting and address by the President (Professor Henry Louis). At 1 P.M., luncheon at the Connaught Rooms, Great Queen Street, Kingsway. At 3,30 P.M., conference of the Inter-Allied Chemical Federation, under the chairmanship of Sir William Yope, F.R.S. At 8,30 P.M., soirée and reception at the Imperial College of Science and Technology, South Kensington South Kensington.

# Wednesday, July 16.

Society of Chemical Industry, Salters' Hall, St. Swithin's Lane, London, E.C. At 10.30 a.m., conference. At 7.15 p.m., annual dinner at the Savoy Hotel, Strand, W.C.

# Thursday, July 17.

Society of Chemical Industry, Salters' Hall, St. Swithin's Lane, 'London, E.C. At 10.30 a.m., conference on "Dyestuffs, Synthetic Drugs and Associated Products." At 8.30 r.m., reception at the British Scientific Products Exhibition, Central Hall, West-

# English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

### Guardians' Affairs.

Mr. G. G. Reid has been appointed dispenser for the Poplar and Stepney Sick Asylum district.

The St. Pancras Guardians have accepted the tender of Burgoyne, Burbidges & Co., Ltd., for drugs.

The Bethnal Green Guardians have appointed Mr. A. E. Strong, chemist and druggist, as dispenser, and the appointment has been sanctioned by the Ministry of Health.

# British Pharmaceutical Conference.

The following additional papers have been received since the list was published last week (C. & D.,\* July 5,

Notes on the Examination of Eosins and Erythrosins, by Messrs. T. Tusting Cocking, F.I.C., J. D. Kettle, B.Sc., F.I.C., and E. J. Chappel, A.I.C.

A note on the Determination of Bismuth by the Formaldehyde Process, by Mr. S. B. Tallantyre, B.Sc.,

A.I.C. A note on Suet Emulsions, by Mr. C. H. Hampshire, B.Sc., F.I.C., and Mr. G. E. G. Hawker.

A note on Japanese Chiretta has also been promised.

### Birmingham

The local Association held a Council-meeting on July 8. A better local railway service is officially promised for the near future.

Cadbury Bros., Ltd., have contributed 500l. and W. Canning & Co. 1007. to the "Red Triangle" Fund.

Alderman F. C. Clayton, Ph.C., and Dr. Coole Neale were observed in the degree-day procession at Birmingham University on July 5.

Local investments in the Victory Loan include: W. & T. Avery, Ltd., 50,000%; Southall Bros. & Barclay, Lta., 15,000%; W. Canning & Co., 6,250%.

A fire broke out recently in the basement of premises occupied by Mr. G. H. S. Burgess, druggist and drysalter, Aston Road. The damage was slight,

Mr. W. D. Beck, eldest son of Mr. William Beck, pharmacist, has passed his Inter. B.Sc. examination at Birmingham University. Mr. W. D. Beck is only seventeen years of age.

Mr. William Dabbs (Birmingham University), chemist and druggist, has been successful in passing the second examination in anatomy and physiology of the Royal College of Physicians and Surgeons.

The case of Willcock & Co. r. The British Potash Co., Ltd., Oldbury, which was heard on July 8, resulted in a verdict for the defendants, they having paid into court the sum of 3,500l., which was held to be sufficient.

Local window-displays resemble recent weather in being somewhat mixed, and, occasionally, incongruous. Medical men in a well-known quarter have some fine specimens of Digitalis purpurea and other indigenous herbs in their windows. Why?

"Wages to commence, 15s. to 20s.," states a local by-wanted" advertisement. A good dinner and tea. good hours, and good prospects are also promised—the last-named item suggesting a way out in the event of nobody being obtainable,

The unlucky thirteen-why had not they power to add to their number?—who pledged themselves to attend the famous by-law meeting in London were very angry at the mismanagement of the official proceedings, and their language-no more of that!

A casual examination made here the other day of several private prescriptions disclosed the interesting fact that many 8-oz. mixtures contained a total of about 2 oz. of tinctures. Reckoning tinctures on a rough average, this would equal about  $2\frac{1}{2}$  oz. of proof spirit. Is it the revival of an old fashion, or a consequence of the shortage of potable spirits?

The "Old Friendship Dinner," recently recorded in the C. & D. (June 28, p 60), reminds a correspondent of the difficulty of keeping in touch with old friends, and even of remembering their identity. A Birmingham pharmacist, he writes, "wandered not long ago into the shop of a Warwickshire friend of thirty years' standing and asked him for 3 gr. of byoscyamine, or, alternatively, 10 gr. of strychnine. He was not recognised until he made himself known!"

On July 4, the directors of Southall Bros. & Barclay, Ltd., entertained to dinner, at the Hôtel Métropole, Birmingham, members of the staff who had served in His Majesty's Forces, together with those who had been in the service of the company since 1914. Mr. T. Barclay presided. Sir Thomas Barclay, Mr. W. E. Hipkiss, and Mr. E. W. Mann were also present. An excellent dinner was served, and, after the usual loyal toasts, the assembly, standing, honoured the memory of the fallen. Mr. Barclay then proposed the health of those safely returned from the war, mentioning that every demobilised employé had been reinstated; he also pointed out that the first Territorial soldier to lose his life was one of the company's employés. A capital programme of music, etc., concluded a most enjoyable gathering.

### Isle of Man.

Gilling Bros., Broadway, Douglas, have opened their shop near the Palace for the summer season. Their window-display includes a good supply of requisites for amateur photographers.

Mr. Henry Kerruish has re-opened his pharmacy at Prospect Terrace, Douglas. Some time ago Mr. Kerruish closed this shop in order to take up dispensing at the internment camp at Knockaloe, near Peel.

The annual season opened well with the Oddfellows' Conference, and the "early holiday" campaign has induced more people to visit the island in June. More steamers are available than last year, and traders, including chemists, look forward to a prosperous season.

The business of Greensill & Son, Douglas, manufacturers of "Mona Bouquet," has been taken over by Mr. George J. Maley, chemist and druggist. The premises, which are situated in a commanding position on the Promenade, are being re-decorated. Mr. Maley continues to carry on the business that he established many years ago in Strand Street.

# Liverpool.

The C. & D. report of the by-law meeting was awaited with great interest.

Mr. G. R. Tharratt, Myrtle Street, has just returned from a holiday—his first break for several years.

Liverpool is suffering severely from delays of goods on the railways. One retailer awaits goods invoiced on June 17; and there are other cases nearly as bad.

Labels are costly. Here is a typical instance: Prewar price, 8s. 6d.; present price, 33s. 6d. A recent invoice for a local retailer's labels amounted to over 30l.

Mr. Henry Peet was on holiday in Austria when the war began. He has so far had no holiday since then, but is now taking a vacation in the Scottish Highlands.

Mr. R. C. Herman, C.C., and Mr. J. Herman have joined a motoring party as guests of Lieutenant-Commander Chilcott, M.P. for the Walton Division of Liverpool.

A suburban retailer lately received, for the second time, the War Office intimation that his former assistant was missing and now reported killed. The assistant himself has since called on his ex-employer.

A pharmacist who lately reverted to the retail was asked how he liked the return to his former sphere. "The rub," he replied, "comes on a Saturday. Here I have to face about nine hours more than of late, as well as an hour on Sunday. I am my own master, but I feel like a servus servorum."

A ship's surgeon and steward, who had been committed for trial on a charge of manslaughter of a boy. were acquitted at Liverpool Assizes on July 7. The lad had died after taking a dose of crude carbolic, which

had been given to him in mistake for a black draught (C. & D., April 26, p. 55).

Here is the substance of a note taken during a conversation between two pharmacists concerning the reading of advertisements in the C. & D. First pharmacist: "I make it part of my business routine to read up the advertisements in the C. & D. and I never fail to obtain some useful information or ideas." Second pharmacist: "My difficulty about following your useful lead is that amid the increasing number of advertisements I find many which are stereotyped, and these are tedions for me to turn over. I relish freshness, whether of display or wording or design, but save me from monotony of announcement."

# Manchester.

Miss Dorothy Simmons, daughter of Mr. E. H. Simmons, chemist and druggist, Chapel Street, has successfully passed her first M.B. at Manchester University.

Benger's Food, Ltd., bought 25,000% worth of Victory Loan on July 5, bringing Manchester's effort up to nearly ten and a half millions.

Many chemists are taking advantage of the Press campaign in connection with baby welfare, and are exhibiting window-bills with photographs of babies who were reared on So-and-So's food.

### Sneffield.

The eldest son of Dr. Robert Bond Greaves, chemist and druggist, has passed his final M.B. at Sheffield University.

A joint consultative board has been appointed from the various hospitals of the city with a view to co-ordination of treatment.

Eardley & Furnival have reconstructed the premises at Broomhill recently purchased from the executors of the late Mr. J. B. Pater.

Mr. Bernard Ellis, chemist and druggist, Ecclesall Road, who is a barrister-at-law, has been successful in passing his Inter. LL.B. with honours.

It is many years since such excitement has occurred in local pharmacy as that caused by the proposed new by-law. Two of the Sheffield members were delayed in the train by a slight accident, but arrived in time for the unofficial meeting. Others were in their places by two o'clock, thus making sure of a seat.

# Miscellaneous.

FIRE.—An ontbreak of fire occurred on July 6 at the pharmacy of Mr. E. B. Kendall, Coney Street, York. The damage was confined to the basement, and was inconsiderable.

PATENT AND TRADE-MARK FEES.—The Board of Trade have issued a general licence authorising the payment of fees in respect of the grant and renewal of patents and of the registration and renewal of the registration of trademarks and designs in enemy countries or on behalf of enemies.

NICOTINE FOR FRUIT-SPRAYING.—British manufacturers of nicotine have agreed to continue until September 30 the arrangement to limit the maximum price of nicotine for fruit-spraying to 16s. per lb., delivered in the case of lots of 100 lb. or more.

B.D.H. CRICKET CLUB.—A game was played on July 5 at Mottingham between the British Drug Houses' warehouse and office teams. The warehouse opened with a score of 73 runs, and were only just beaten by the office, who totalled 79. Mr. O. B. Oxon (office) made the top score of 39, the next highest being Mr. C. Parker (warehouse), 15. Another notable performance was that of Mr. R. George, who captured for the winners 5 wickets for 26 runs.

TEMPERANCE REFORMERS AND ALCOHOL.—At the annual conference of the British Temperance League, held in Bradford recently, a resolution was carried appealing to the medical profession for collective action, calling for the scheduling of alcohol with opium, chloral, cocaine, and other narcotics, and its prescription only on the lines of those drugs. Speaking in support of the resolution, Mr. F'. W. Richardson said that his work as a public analyst

required him to make himself acquainted with therapeutics and pharmacology. Alcohol was a paralysing agent, and was very seductive in small quantities. He had to take part in a number of public dinners, and he noticed the effect alcohol—first in very small doses, and later in larger quantities—had upon those who drank it.

In the Courts.—At Herts Quarter Sessions, on July 1, John Jackson was sentenced to three months' imprisonment for wilfully smashing a window at the Watford premises of Boots, Ltd., causing damage to the extent of 32l.—In Sheffield County Court, recently, a farmer named Thorpe was awarded 100l. damages against the Lees Hall Golf Club, Ltd., for having caused the death of some of his stock by placing weed-kirler on certain land. Mr. John Evans, Ph.C., the Sheffield analyst, gave evidence of finding arsenic in the intestines of the animals.—At Leeds, on July 7, two women were charged with attempting to commit suicide by poisoning. In one case, the preparation chosen was an eye lotion, the composition of which was not stated. They were discharged.—At Huddersfield, on July 7, a woman who was sentenced for being drunk and incapable admitted that she preferred methylated spirit to whisky.—At Bow Street Police Court, London, on July 9, Alfred Barnard, drug-store proprietor, Columbia Road, Bethnal Green, was fined 2l. for insulting behaviour.

Parcels Post.—The Postmaster-General gives notice that goods sent for commercial purposes can now be accepted for transmission to the parts of Germany in Allied occupation at the rates of postage applicable to the present restricted service, namely: For a parcel not exceeding 3 lb., 1s. 4d.; over 3 lb. and not over 7 lb., 1s. 8d.; over 7 lb. and not over 11 lb., 2s. The senders of parcels should consult the Export Licence Department, Board of Trade, as to any export restrictions which may be in force. Neither parcels nor correspondence of any kind can be forwarded to places in Germany not in Allied occupation. Parcels can be accepted for transmission to Bulgaria by sea direct at the same rates of postage. The postage on parcels sent to Rumania by sea direct has been reduced to the same rates. Parcels for civilians in Smyrna can now be accepted for transmission if addressed Poste Restante, British Post Office, Smyrna. The rates of postage are: For a parcel not exceeding 3 lb., 1s.; over 3 lb. and not over 7 lb., 1s. 4d.; over 7 lb. and not over 11 lb., 1s. 8d. Prohibited articles are salt and tobacco. Persons sending parcels to Smyrna should make inquiry of the War Trade Department as to export restrictions.

Poisonings.—An inquest was held at Overstrand, on July 7, on the body of the wife of the Rev. Dr. Edward Lyttelton. Dr. Lyttelton said his wife had suffered continuously from noises in the head for the last sixteen years. She had been under the treatment of forty-two doctors at one time or another without relief. She suffered intense pain, which she described as a feeling of inward collapse of all her powers. For this she had taken for a long time a strychnine mixture ordered by a London nerve specialist. Evidence having been given to the effect that an overdose of this mixture had been taken, and a letter left by Mrs. Lyttelton having been read, a verdict of "Suicide while temporarily insane" was returned.—A similar verdict was returned on the same day at Abingdon in the case of Lady Bliss, whose death was found to have resulted from taking potassium cyanide.—At an inquest held in Battersea, London, on June 3, on the body of an infant named Ross, who died after eating arsenic-and-strychnine tablets, it was stated that the child had been given a tin containing these tablets to use as a rattle. A verdict of "Death by misadventure" was returned.—A Canadian soldier died from opium-poisoning in a Dulwich hospital on July 4:—The wife of a Lambeth waiter named Thefaut committed suicide by taking carbolic acid.

Wages in the Chemical Trade.—The Court of Arbitration set up at Westminster is considering, among other applications, one by employers in chemical industries to reduce wages now that the cost of living is said to be declining. There is a counter-demand by the employés for the conversion of war-bonuses into wages.

# Irish News.

Brevities.

An up-to-date medical hall has been opened at 3 Queen's Square, Fermoy, by Mr. M. A. O'Brien, L.A.H.

Mr. A. C. Scott, J.P., R.D. (Chairman of the Portrush Urban Council), has been appointed Chairman of the Local War Memorial Committee,

At a meeting of the South Tipperary County Council, Morris & Co., Clonmel, and Mr. J. P. Kennedy, Golden, applied for poison-licences under the Poisons and Pharmacy Act, 1908. Mr. Russell objected to the granting of licences to unqualified men while there was an adequate number of qualified chemists in the district. Eventually the licences were granted by twelve votes to eleven.

At the Longford Quarter Sessions, Mr. S. Wilson, J.P., Ph.C., Longford, sucd the Midland Great Western Railway Co. to recover 8l. 7s. 6d., the cost of empty medicinecases consigned to Dublin and elsewhere, and which were not delivered. It was stated, on behalf of defendants, that foodstuffs got precedence over other goods, which consequently, were held up. As the empties had been located the Judge adjourned the case to the next sessions.

### Belfast.

The Belfast wholesale drug houses are closed for holidays from July 11 until July 16.

The proposed federation of drug associations has been favourably received in Belfast, but no official action can be taken until the local organisations meet. There are three trade associations with headquarters in Belfast: The Ulster Retail Drug Trade Association; the North Irish Pharmacists' Association; and the Chemists' and Druggists' Society of Ireland.

Mr. W. J. Busby, R.D., for a number of years managing director, of Harmur, Ltd., chemists, Ann Street, Belfast, has decided to move to Canada for family and health reasons. Mr. Busby, who is well known in the North of Ireland, was for a time manager of the drug department of Wm. Dobbin & Co., Ltd. He has, for a number of years, been identified with the Chemists' and Druggists' Society of Ireland.

# Scottish News.

Brevities.

The Secretary for Scotland has nominated Sir James Leishman and Dr. J. C. McVail (Scottish Insurance Commissioners) as members of the Scottish Board of Health. Sir George McCrae has been appointed deputy-chairman of the Board.

The following Scottish chemists have lately joined the Rexall movement: Messrs. A. Scott, Cambuslang; R. Wilson, Uddingston; J. W. Venters, East Wemyss; P. Fenton, Cardenden; W. J. McGregor, Ellon; W. W. Cruickshank, Fraserburgh; D. M. Wright, Kirkwall; A. A. Porteous, Lerwick; W. Thomson, Glasgow; J. P. Sinclair, Gullane; J. P. Taylor, Cumnock.

Mr. David Buchanan, chemist and druggist, Kirriemuir, who has retired from the postmastership of the town after thirty-five years' service (not twenty-five years', as reported in this column last week), has been presented by the postal staff with a marble clock and ornaments, to which was added a vanity-bag for Mrs. Buchanan. The presentation was the occasion of a pleasant function, at which several complimentary speeches were made. Mr. Buchanan has been in business since 1875.

Bowling Competition.

Through the kind offices of Mr. C. R. Brown, one of the Scottish representatives of Ayrton, Saunders & Co., Ltd., Liverpool, a cup has been given by this company for annual competition by employers and employés in the wholesale and retail drug-trade of Scotland. The cup will be competed for by rinks representing counties or districts. The first competition will take place in September, either in Glasgow or Edinburgh. Scotland has

been divided into two districts-Glasgow and the West of Scotland, and Edinburgh and the remainder. Skips of rinks intending to take part are requested to notify either of the two chemists representing those districts by the end of July at the latest. The entrance-fee is 10s. for each rink, competitors to pay their own expenses. The committee authorised to receive entries are: Mr. G. S. Kitchin, 116 Nithsdale Road, Pollokshields, Glasgow; Mr. H. P. Arthur, 361 Victoria Road, Crosshill, Glasgow; Mr. G. O. Andrew, Slateford Road, Edinburgh; Mr. J. A. Cochrane, 279 Easter Road, Leith. Any number of rinks can take part if each represents a particular county or district. The committee trust that as many chemists and assistants as possible will endeavour to enter. Any further information will be gladly supplied, on application, by any member of the committee.

### Dur de a.

A chemist's business which recently changed hands at the west-end of Dundee is said to be again in the market.

Dr. Francis James Charteris, Glasgow, has been appointed Professor of Materia Medica at St. Andrews University, in succession to Professor Marshall, now of the University of Aberdeen.

In addition to the details previously made public regarding the war work done at the University of St. Andrews, it is stated in the local Press that Professor Herring allowed himself to be experimented upon with unknown poisons, and that he was assisted by various volunteers.

A feature of the thanksgiving service at St. Paul's Church on July 6 was the peal rung on the eight bells, which are one of the treasures of this church. Mr. F. W. Moore, representative in Scotland of Evans Sons Lescher & Webb, Liverpool, was invited to take part on this memorable occasion.

### Edinburgh.

An Edinburgh chemist advises customers, by means of a printed notice, that "Prescriptions dropped in the letterbox will be attended to first thing in the morning.

Mr. Callender, representative of Blyton, Astley & Co., Manchester, met with an accident in the Waverley Station a few days ago, and will be unable to undertake his journey to the North for a week or ten days longer.

# Glasgow.

Mr. G. G. Henderson, D.Sc., F.I.C., has been appointed Regius Professor of Chemistry in the University of Glasgow in succession to the late Professor John Ferguson.

In a village not far from Glasgow some unconscious "cutting" was disclosed by prices marked in the window of a general dealer—e.g., Colgate's Tooth Paste, 6d. a tube, and Gibbs's Cold Cream Soap, 5d. a tablet. A hint to the proprietor was gratefully accepted.

# Scottish Chemists' Retail-price List.

The recent issue of the Scottish Chemists' Retail-price List contains a dispensing chart, provided with spaces in which chemists may write their own charges and return the charts to the Secretary of the Glasgow and West of Scotland Chemists' Association. The following are among the alterations in the prices of drugs: Acid. tartaric., 5d. oz.; camphor, 1s. 3d. oz.; ess. limonis, 2d. dr.; ess. menth. pip., 4d. dr.; ess. pulegii, 3d. dr.; ess. vanilæ, 1s. 6d. oz.; lin. camph., 5d. oz.; lin. camph. amm., 9d. oz.; ol. cajuputi, 2s. oz.; pot. brom., 6d. oz.; tinct. aurant., 18. 4d. oz.; tinct. camph. co., 7d. oz.

SULPHURIC ACID CONSUMPTION.—According to official estimates, the home consumption in 1918 amounted to about 1,290,000 tons (109 per cent. acid), of which 310,000 tons consisted of fuming acid. The respective totals for 1913 were 1,000,000 and 25,000 tons.

German Dyes via Switzerland.—The American War Trade Board is suspicious that considerable quantities of German dyes have been smuggled into Switzerland, and are now trickling through into the United States in much larger supply than is realised by the trade. French News.
(From the "C. & D." Paris Correspondent.)

PROFESSOR BOURQUELOT, of the Paris School of Pharmacy, has been elected a member of the chemical section of the Academy of Sciences, in place of the late Professor

MM. Eugène and Paul Grandmougin have published a volume on the "Reorganisation of Chemical Industry in France," a subject of special interest in view of the revived idea of capturing enemy markets.

PARMENTIER'S STATUE.-A subscription-list has been opened to cover the expenses of replacing the statue of Parmentier, destroyed at Montdidier by the Germans. The celebrated savant was for long a military pharmacist attached to the still famous Hôtel des Invalides, where the pharmacists were accorded, by Louis XIV., the same honours and privileges as those due to the Royal Family.

A YEAR Ago.—The conditions in France are so different from those of May and June 1918 that the following "citation," tardily published, seems curious: "Paul Dieulafé, reserve second-class pharmacist, during the night of May 27-28, 1918, volunteered to remain on the spot when the post at Bray-sur-Somme was about to fall into the hands of the enemy." Bray-sur-Somme is some twenty miles east of Amiens.

THE HYGIENIC COUNCIL of the Seine Department has opposed the request of a British firm to admit eggs from America preserved with 2 per cent, of borax. The same body also recently asked the Minister of Agriculture to rescind the authorisation given to use boric acid for the preservation of margarine and butter. The Council held that only 85 per cent. of boric acid is eliminated from the system, and the remainder is detrimental.

Degree for the Unqualified.—It is of interest to note a proposal to legalise the issue of a diploma of "Preparator in Pharmacy" to capable (but unqualified) assistants. A committee of the Chamber of Deputies is not in favour of the proposal, but suggests that the degree of "Graduate in Pharmacy" might be instituted. This would give to the experienced assistant the right to a title "justifying knowledge, acquired by long practice, intelligence, and hard work," but not to keep open shop.

INFLUX OF CHEMICAL PRODUCTS.—The question of the numerous pharmaceutical and chemical products now being offered for sale in France by Alsatian and Belgian firms, was discussed at a recent meeting of the Paris Wholesale Druggists' Association. So far as Belgian and Swiss offers are concerned, it was felt that the necessary guarantee against the importation of goods of German origin should be provided by the French Customs authorities. The question of stocks in Alsace-Lorraine will be studied by a small delegation at Strasbourg.

Lest We Forget.-During the bombardment of Paris by the long-range gun a year ago, two shells fell on the Pharmacie Centrale de France (which is a stone's throw from the church where the massacre of Good Friday, 1918, occurred). Luckily both "Berthas" arrived outside working hours, so no bloodshed resulted. Similar cases are known where, if a shell had fallen a few minutes sooner or later, it might have slain dozens of workmen. The pharmacy of a Parisian hospital was set on fire and destroyed by a "Gotha" bomb during the first great night air-raid (January 31, 1918).

HERBALISTS AND THEIR REMEDIES.—The decision of the Court of Cassation (the highest French tribunal), confirming the judgments passed in the Court of Appeal and in the Algerian Criminal Court, seems to settle definitely that a French herbalist has not the right to sell compound herbal remedies, as distinguished from "simples." defendant, M. Aboucaya, packed mixtures of herbs under the generic title "Indian tea," but numbered according to the disease each mixture was supposed to heal. Condemned for the illegal practice of pharmacy, he carried his case to the higher Courts. This case, in which an inspector of pharmacy was the prosecutor, may now form a legal precedent.

# Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C. 4."

### Report on the June Analytical Exercise.

THE powder distributed to students on June 10 contained two parts by weight of lead nitrate, two parts of hydrated calcium sulphate, and one part of magnesium hydroxycarbonate. The calculated composition of such a mixture is:

Pb	 	 	25.0
Ca	 	 	9.3
Mg	 	 	5.1
NŌ,	 	 	15.0
$SO_4$	 	 	22.3
CO.	 	 	9.4
OH	 	 	1.8
$H_{a}O$	 	 	12.1
-			
		1	0.00.

The powder also contained, as impurities, a distinct trace of manganese and minute traces of iron and of chlorine.

Samples of the powder were distributed to nineteen students, and ten reports were sent in for examination. Calcium and the three acidic radicals were detected by all the students who sent in reports, but lead was missed by four and magnesium by three. The evolution of water when the powder was heated in a dry tube was

overlooked by three correspondents.

This exercise, which was designed for junior students, presented some features that were liable to lead students who had not previously encountered them into serious error. Calcium sulphate, which made up two-fifths of the mixture, has certain points in its behaviour which may be both puzzling and misleading, and this constituent was the primary cause of a number of mistakes. Thus, although sparingly soluble in water, whether hot or cold, it dissolves moderately freely in boiling dilute hydrochloric acid, and a portion of the dissolved matter separates in finely crystalline form as the solution cools. To a certain extent, calcium sulphate in this behaviour resembles lead chloride, and in the present analysis mixtures of lead chloride and calcium sulphate appear to have been met with in some cases and to have been taken for, and simply treated as, silver-group precipitates. Again, when a hydrochloric acid solution of calcium sulphate is neutralised with ammonium hydroxide, a precipitation of calcium sulphate may occur. This also appears to have taken place in this analysis in several instances, at the stage where ammonium chloride and excess of ammonium hydroxide were added as iron-group reagents, and the precipitated calcium sulphate was sometimes mistaken for aluminium hydroxide. Analytical anomalies of a somewhat similar kind are not infrequently met with when strontium sulphate is present, and hence the student of analysis should make it a point to be on special guard against being misled when calcium or strontium and the sulphuric acid radical are detected in a mixture.

When lead is a constituent of a mixture submitted for analysis from this Corner there are invariably failures in its detection, due to lead chloride remaining dissolved in or to lead sulphide not being precipitated from hot, moderately dilute hydrochloric acid. In the one case lead chloride is not obtained as a silver-group precipitate, and in the other, lead sulphide is not obtained as a copper-group precipitate; occasionally indications are not observed at either place. If not precipitated at all at the proper stages, or if only incompletely precipitated, the lead appears in some form later in the analytical treatment, and usually occasions much trouble. The distinction between lead and bismuth is not difficult, and students who have mistaken lead for bismuth in this analysis should make a careful experimental study

of the differences in behaviour—especially with regard to the iodides.

The trace of manganese was not detected by any student, although several obtained iron-group or zinders group precipitates in small quantity, which were doubtless due to manganese and would have afforded reactions leading to the identification of this metal had any sufficiently delicate test been applied to them.

### PRIZES.

The first prize for the best analysis has been awarded to

GLADYS BRAYSHAW, 7 Brook Street, Gloucester.

The second prize has been awarded to

CYRIL T. HINES, Norfolk House, Danvers Road, Hornsey, N. 8.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

### MARKS AWARDED FOR ANALYSIS.

G. Brayshaw	(1st	B. B. Dutta 78
		H. W 77
C. T. Hines	(2nd	Scopolamine 76
Prize)	` 96	Labor Omnia Vincit 75
		J. G. E 65
Joshua	87	Nitrosvl 64

# TO CORRESPONDENTS.

G. Brayshaw.—Note that in reports of analyses you are not expected to write equations to represent the reactions that take place when positive indications are obtained.

C. T. Hines.—Dilute hydrochloric or nitric acid—not the concentrated acid—should be employed to test the solubility of a precipitate obtained by adding barium chloride or nitrate in testing for acid radica.s: there is always the risk of one or other of the latter salts remaining undissoived and being mistaken for barium sulphate, since both are very sparingly soluble in the concentrated acids although moderately soluble in water and the dilute acids.

T. E. P.—For use in delicate analytical work you would be well advised to procure, or to prepare, some sodium carbonate free from traces of chloride or sulphate: the uncertainty attaching to results obtained through employing this reagent when even slightly im-

pure is always unsatisfactory.

Joshua.—The trace of iron present in the powder was exceedingly minute. It seems likely that the apparently well-marked indications which led you to report iron as a main constituent were due almost entirely to manganese: see the general remarks. The acetic acid radical was not present.

radical was not present.

B. B. Dutta.—The reactions in the systematic examination which led you to conclude that bismuth was present were all due to lead, but it is difficult to understand how you came to regard as brittle the reduced metallic lead obtained on charcoal. After adding potassium chromate as a test for barium, why filter when a precipitate is not produced?

H. W.—Had you applied any delicate test for manganese to the precipitates which you obtained in connection with the zinc-group, it is practically certain that you would have detected that metal. The supposed trace of aluminium hydroxide was probably calcium sulphate:

sce the general remarks.

Scopolamine.—Although it was not a specially abundant main constituent of the powder, the magnesium was present in sufficient proportion to yield a quite distinct group reaction with sodium or ammonium phosphate, either at once if the solution was not too dilute or after vigorous shaking and standing for some time in the case of a dilute solution. Probably you did not wait to observe whether or not any precipitate appeared on standing.

LABOR OMNIA VINCIT.—See the reply to C. T. Hines and the first sentence of that to B. B. Dutta.

J. G. E.—Your report is drawn up in quite satisfactory form, but much of your practical work is faulty. The precipitate which separated from the hot hydrochloricacid solution of the original powder on cooling consisted of lead chloride with, probably, some calcium sulphate, and in it you should have been able to recognise the presence of lead. Some lead escaped precipitation as sulphide by hydrogen sulphide and caused trouble at a later stage, Carefully study the general remarks above and the replies to other correspondents, and from these you may obtain a good deal of light regarding points which seem to have given you trouble. The powder did not contain a borate.

NITROSYL.-Most of the inaccuracies in your analysis are referred to in preceding replies, which see.

# Legal Reports.

Telephone Charges .- In the City of London Court, on July 8, the Postmaster-General sued Fred Butler, formerly in business at Townley Road, East Dulwich, but who is now Acting S.Q.M. in the Army of Occupation, for 11. 12s. 6d. telephone charges. Judge Atherley-Jones, K.C., said the defendant had written to him to say that he had had the telephone for four months in 1914, that he had paid for the fitting of the telephone and for one year's subscription, that he then asked for it to be removed as he was leaving business for the Army, and he considered the Postmaster-General had had enough. A clerk from the P.M.G.'s office, who conducted the case for him, said that the contract was for a year certain, and then subject to a quarter's notice. Judgment was given for the P.M.G., with costs.

Damages Against Chemist,-At the High Court, on July 7, Mr. Holman Gregory, K.C., M.P., gave judgment in the case of Brown v. Hazelby, which he heard as Commissioner at Winchester Assizes. It was an action as Commissioner at Winchester Assizes. It was an action by Miss Alice Brown against Mr. T. W. Hazelby, chemist, Ringwood, for wrongfully breaking and entering 64 High Street, Ringwood, and evicting her therefrom. There was a counterclaim. The Commissioner reviewed the evidence at great length. Defendant had purchased the premises and agreed to allow plaintiff to remain tenant until Michaelmas 1918, but there was a dispute as to the time when the tenancy expired. Plaintiff was unable to procure other premises in which to move her furniture and stock. It was also alleged that defendant has flung plaintiff's shop goods into the yard, and that these had become injured by the rain. The value of the stock was stated to be 36l. 7s. 8d., but the Commissioner said that, as perhaps some of the goods were old and out of date, he would give judgment for plaintiff for 30l., without costs. The plaintiff failed to give up possession until November 14, and he therefore found for the defendant on the counterclaim for 41., without costs.

Venereal Disease Act .- At Portsmouth Court, on July 8. James Walker (trading as Walton & Co.), 85 Queen Street, Portsea, was summoned under Section I. of the Venereal Disease Act, 1917, for treating and prescribing for a venereal disease. Counsel for the defendant (who was unable to be present) pleaded "Not guilty." It was stated for the prosecution that on April 17 defendant treated and prescribed, in contravention of the Act, his premises being characterised by counsel as a shop for the sale of rubber goods and druggists' sundries. Police evidence was given to the effect that on the date mentioned John Matthews, the manager of the shop, prescribed for a supposed venereal disease a medicine labelled "Sandalwood-oil Emulsion." This evidence was formally objected to by counsel for the defence, who, in his opening, sought to show that the Court had no jurisdiction in the case before them. He proceeded to read lengthy quotations from "Stone" regarding the liability of employers in respect of the acts of their servants, and quoted a decision of the High Court to show that his client was not responsible for the act of his manager Matthews.

The Bench found that the treating had been proved, and imposed a fine of 50%, with the alternative of two months' imprisonment. After further legal argument, it was decided to hold that the prescribing was also proved. Part costs were allowed. The Magistrate agreed, on the application of the defending counsel, to state a case.

Mercury Ointment - At Chatham, on July 8, Mr. William Londesborough Towers, chemist and druggist, Railway Street, was summoned for selling mercury ointment not of the nature and substance demanded. Mr. Towers pleaded "Not guilty." It was stated for the prosecution that a Mrs. Williams, acting on official instructions, went to defendant's shop and asked for a box of mercury ointment; she was served by an assistant. She then asked for some citric acid; but defendant, who was in the shop, gave instructions that it should not be sold, and demanded that the ointment should be given back. Mrs. Williams, giving evidence in support of the opening statement, said in cross-examination that she was not asked what the ointment was wanted for. Mr. Towers, in the course of his evidence, explained that in all his forty years' business experience he had never sold what was officially known as mercury ointment. It was dangerous, and he diluted it one in three. On the occasion in question, he asked the woman for what purpose the ointment was wanted, and she did not reply. In the meantime his assistant had given her white-precipitate ointment, which he thought was what she wanted. There were at least ten ointments containing mercury. The Chairman of the magistrates said that the offence was a technical one, but Mr. Towers should have told Mrs. Williams what he was serving her with. A fine of 11., with 3s. costs, was imposed.

Chemist's Manager Sued.—At Tunbridge Wells County Court on June 27, before Judge Parry, Mrs. Catherine Ann Pearmund, proprietress of a chemist's business in Calverley Road, Tunbridge Wells, sued her late manager Mr. P. J. Pulpher, for damages for leaving her service before the expiration of a month's notice, and for the return of a borrowed bicycle. Mr. Moresby, for the plaintiff, stated that Mrs. Pearmund was making certain changes in the business, and gave defendant notice, but before the notice expired he disappeared with the bicycle, which had been lent him. Mrs. Pearmund, in cross-examination, devied that she said to Pulpher, "There is that old bicycle, and if it is any good to you, you are welcome to it." Alfred Pearmund, son of plaintiff, said when defendant's bicycle was stolen the shop bicycle was lent to him. Defendant said on the Saturday before-his notice expired he mentioned to Mrs. Pearmund that he was feeling ill and must have a change, and that he was sure he would not be able to come on Monday. She said, "As you are leaving, you can please yourself. We can do without you." On Monday he was confined to his bed, but no one came to see how he was. On Tuesday plaintiff sent for the bicycle, but he refused to give it up as Mrs. Pearmund had given it to him. He had spent 3l. 10s. on it, and it was his bicycle. His Honour gave judgment for plaintiff for the return of the bicycle or the payment of 51. and costs; but with regard to the claim for damages, he did not consider the case proved, and gave judgment for defendant, with costs.

# Gazette. Bankruptcy Acts.

RECEIVING ORDER AND ADJUDICATION.

HEESCH, E. E. F. (now carrying on business under the style of The Gatap Co.), lately residing at 158 Woodsley Road, Leeds, and formerly carrying on business at 212 Wellington Street as manufacturers' agent, now at 59 Clarendon Road, and carrying on business at Stansfield Mill Yard, 77 and 79 Kirkstall Road, as oxyacctylene welder and chemical manufacturer.

DIAGNOSED.—The teacher was taking the class in physiology, and came to the nose. "'Elps to pay for things," volunteered the bright boy. "It's like this," he explained, "Mother says we're paying for everything through the

# New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

CHAPMAN & SONS (GRIMSBY), LTD. (P.C.).—Capital 5,000l. Objects: To acquire the business of manufacturers of animal medicines, feeding stuffs, and disinfectants, carried on under a similar style at Cleethorpe Road, Grimsby.

W. N. Monks & Co., Ltd. (P.C.).—Capital 5,000l. Objects: To carry on business as chemists, druggists, drysalters, oil and colourmen, and importers and manufacturers of and dealers in pharmaceutical, industrial, and other preparations. R.O., 38 Silverwell Lane, Bolton.

other preparations. R.O., 38 Silverwell Lane, Bolton.
E. Nickerson & Co., Ltd. (P.C.).—Capital 10,000.
Objects: To take over the business of chemical, drug, and general merchants, importers and exporters, carried on by E. & E. W. Nickerson and C. A. Peck at Royal Dock Chambers, Great Grimsby, as E. Nickerson & Co.

FALCON CHEMICAL AND RUBBER Co., LTD. (P.C.)—Capital 5,000l. Objects: To acquire the business of manufacturers of preparations for proofing all kinds of textile belting, manufacturers of rubber substitutes and chemicals, etc., carried on by H. J. Jack at Manchester. R.O.: 230-2 Produce Exchange, Manchester.

. Surgical Manufacturing Co., Ltd. (P.C.).—Capital 25,000l. Objects: To acquire the business of manufacturers of and dealers in hospital furniture and appliances, and surgical, dental, medical, and scientific instruments carried on by W. J. Edwards, under similar style. R.O., 83 and 85 Mortimer Street, London, W.1.

Alfred Smith, Ltd. (P.C.).—Capital 80,000l. Objects:

Alfred Smith, Ltd. (P.C.).—Capital 80,000l. Objects: To take over the business of manufacturing chemists carried on by A., E. & W. Smith at Excelsior Chemical Works, Clayton, Manchester, as "Alfred Smith"; also to carry on the business of oil-refiners, colour-grinders, manufacturers of and dealers in raw, waste, and reclaimed rubber, etc.

BURGOYNE, BURBIDGES & Co., LTD.—The appointments of Mr. C. P. Winchester, Mr. W. C. Harris, Mr. A. M. Cheyne, and Mr. W. Crawford as directors from January 1, 1919, were confirmed at the general meeting on July 1.

JOINT STOCK COMPANIES.—Notice is given in the "London Gazette" that at the expiration of three months from June 27 the following companies will, unless cause is shown to the contary, be struck off the Register and the companies will be dissolved: Aberdeen Chemical Co., Ltd.; Chamberlain's Drug Stores, Ltd.; Health Culture "Co. (1913), Ltd.; Sandow's Health Foods, Ltd.; Wessex Perfumery and Potteries, Ltd.

GERMAN CHEMICAL DIVIDENDS.—The annual report of the Farbwerke vorm. Meister, Lucius & Brüning, of Höchst, for 1918," states that, since the beginning of November, most of the staff left, after the discharge of the temporary hands taken on for war work, have been engaged on relief work, and it has not, so far, been possible to resume the ordinary operations of the firm to any large extent. There is great difficulty in disposing of the output, and also in procuring raw materials. Large sums have had to be written off on account of the plant used mainly or wholly for war work, and the money already provided for reconstruction has proved to be far from sufficient, in view of the heavy wear and tear of the plant. The new loan of 30 million marks is intended to supply the means for reconstruction. The gross surplus, including unspecified drafts from certain reserve funds, is 52,800,954m., and after writing off 23,747,496m. there is a net profit of 14,955.604m., against 25,179,969m. in the previous year, out of which 10,800,000m. are to be distributed as a 12 per cent. dividend, against 18 per cent, in the preceding year; 2.320,109m, is allotted as share of profits and bonuses. 500,000m, is devoted to benevolent purposes, and 1,335,494m. carried forward. The gross profit of the Farbenfabriken (F. Bayer & Co.), Leverkusen, in 1918 amounted to 23,445,110m., against assented to.

44,909,498m. in 1917, and the net profits to 9,867,818m., against 28,127,208m. It is proposed to distribute 10,800,000m., against 18,000,000m. in the previous year, as a 12 per cent. dividend, against 20 per cent. in the preceding year. The report states that the actual extent of the losses cannot yet be accurately estimated. In addition to the difficulties arising from the works being in the occupied area, there has been a great increase in the outgoings for wages, salaries, and materials, the considerable reduction in output being accompanied by greatly increased expenses. The prospects of the export trade, the report states, are still uncertain, the conditions in the dyestuff industry are certain to be more difficult, even if it is not completely throttled. The business employs 8,291 workpeople and 1,881 officials.

EVANS SONS LESCHER & WEBB LTD.—An extraordinary meeting was held at 56 Hanover Street, Liverpool, on July 3 for the purpose of confirming as a special resolution the resolution passed on June 18 (C. & D., June 28, p. 54), removing the restrictions on the ordinary shares of the company, and also for the purpose of passing an extraordinary resolution authorising an increase in the capital of the company to 750,000% by the issue of an additional 150,000 ordinary shares. The Chairman (Mr. William P. Evans), in recapitulating the purposes for which the meeting was called, said: "You have heard from the minutes which have been read the reason for the first resolution, and I need not enlarge on that point except to say that it is necessary in order that a free market may be obtained for the proposed new issue. The additional capital is required to enable the company to take advantage of the great opportunities which are open to us to increase our manufacturing departments, and also to develop business at home and abroad. It is not necessary for me to explain at any length that the enhanced value of all the articles in which we deal requires more capital to finance the business, even if the volume of trade during the past five years had been stationary; but it has not been stationary. New markets have been opened up and old markets developed. The opportunities have been great, but, in spite of the many difficulties, we have considerably increased our business, and I may add that the sales for the first four months of this-the first year after the war-show an increase in value of 20 per cent. over last year. This has meant heavier stocks, additional buildmaking many new articles, and hope to make many more), and more money lying out. During the war, owing to Treasury restrictions, it has not been possible to raise new capital, but these restrictions have now been removed, and the directors have decided that it is an opportune time to ask your consent to the new issue in order that they may take the fullest advantage of the situation. We had intended to make the issue early this month, but, in view of the great importance of the Victory Loan and the special appeal of the Chancellor that all issues should be postponed till the Victory Loan has been closed, we have decided to postpone our issue until the autumn. I am sure all our friends and existing shareholders will appreciate the circumstances and motives which have actuated the directors in their action. The prospectus which will then be issued will give further details, and I now need only say that pre-ference in allotment will be given to the employes, customers, and existing shareholders of the company. directors feel that the position of the company will be strengthened by increasing the ordinary share capital, and by admitting to a share of the profits those who are working for and with the business." The Chairman proposed that the extraordinary resolution passed on June 18 be confirmed as a special resolution, which was seconded by Mr. J. McCaig, and carried unanimously. He then proposed an extraordinary resolution increasing the capital of the company, and empowering the directors to allot the new shares when issued; this was seconded by Mr. J. Andrew, and carried unanimously. A subsequent meeting of the ordinary shareholders of the company was held, when these resolutions were

# Ministry of Health Councils.

THE draft of the Ministry of Health (Consultative Councils) Order, 1919, has been issued in accordance with Section 4 of the Ministry of Health Act, 1919. The following are the main clauses:

1. Consultative Councils shall be established in pursuance of the foregoing provisions for giving, in accordance with the provisions hereinafter contained, advice and assistance in connection with such matters as relate severally to:

(1) Medical and allied services.

(2) National Health Insurance (Approved Societies' work).

(3) Local health administration.(4) General health questions.

2. Each council shall consist of such numbers of members, not exceeding twenty, as the Minister may determine, being persons thaving, in the case of each council, practical experience of the matters for the purposes of which the council in question is established.

3. (1) The members of a council shall be appointed by the Minister, and shall include women as well as men.

(2) At the expiration of one, two, and three years respectively from the first appointment of the members of the council one-third of the original members, to be selected by lot, shall go out of office, but for the purpose of this provision an original member who has been reappointed shall not be deemed to be an original member.

(3) Subject as aforesaid the members of a council shall hold office for three years and shall then go out of office:

Provided that on a casual vacancy occurring in a council the person appointed to fill the vacancy shall hold office until the time when the person in whose place he is appointed would regularly go out of office, and shall then go out of office.

(4) A member of a council on the expiration of his term of office may be reappointed, so however that no rember shall remain in office continuously for more than six years.

. 4. The Minister of Health shall be the President, and the Parliamentary Scoretary to the Ministry of Health

shall be the Vice-President of each council.

5. The Minister shall appoint a Chairman and a Vice-Chairman of each council, who shall hold office until the next periodical expiration of the term of office of members of the council, but may be reappointed so long as they remain members of the council.

6. The President, or in his absence the Vice-President, or in the absence of both the President and the Vice-President the Chairman, shall preside at every meeting of a council at which he is present.

7. The Minister shall appoint a person to be the Secretary of each council, and the person so appointed shall hold office during the pleasure of the Minister.

8. (1) A council shall meet at such times, and notice of meetings shall be given to the members of the council in such manner as the council may, with the approval of the Minister, determine.

Provided that the council shall meet at least once in each quarter.

(2) At a meeting of a council ten shall be a quorum.

(3) No act or proceeding of a council shall be questioned

on account of any vacancy in their body.

9. A council may for special purposes approved by the Minister appoint committees of their members, and any committee so appointed may, within the limits approved by the Minister, add to their numbers persons not being members of the council.

10. If a member of a council is absent from the meetings of the council for a period of six months, except for some reason approved by the Minister, his office shall become vacant.

11. (1) A council shall consider and report upon the questions from time to time referred to them by the Minister, including—

(a) questions arising upon the draft of Orders in Council, and of Regulations, Orders, and Special Orders proposed to be made by the Minister;

(b) questions involving considerations of important principle and scientific difficulty affecting or incidental to the health of the people;

(c) any other questions in connection with such of the powers and duties of the Minister as relate to matters affecting or incidental to the health of the Leonle:

and the Minister shall place at the disposal of the council the information required to enable them to consider the

matters thus referred to them.

(2) A council may propose to the Minister from time to time that any question in connection with such of his powers and duties as relate to matters affecting or incidental to the health of the people, if pertaining to the functions of the council, shall form the subject of a reference to the council, and the Minister shall receive and consider any such proposal.

(3) A council may also present to the Minister from time to time a report on any matter affecting or incidental to the health of the people, if pertaining to the functions of the council, which has not been made the subject of reference to the council under the foregoing provisions of this Order, and the Minister shall receive and consider such report.

12. Subject to the provisions contained in this Order,

a council may regulate their own procedure.

# Presentation to Sir William Glyn-Jones.

On July 10 the members of the Proprietary Articles Trade Association held a luncheon at the Holborn Restaurant, London, W.C., at which a presentation was made to Sir William Glyn-Jones as a token of esteem and to indicate their pleasure on his receiving the honour of knighthood. Mr. John Keall (President) presided over an assembly of about 120, including a fair sprinkling of ladies. Messrs. G. R. Barclay and Page Woodcock presided at the Manufacturers' tables, Mr. F. T. Smith at the Wholesalers'. and Messrs. P. F. Rowsell and S. N. Pickard at the Retailers' tables. Among those present were: Sir William and Lady Glyn-Jones, Miss Glyn-Jones, Mr. Hildreth Glyn-Jones, Sir Richard A. Robinson, Mr. A. T. Webb, Mr. Ernest Sanger, Mr. W. H. Woodward, Dr. Pilley, Mr. and Mrs. T. H. Williams Idris, and Mr. R. Feaver Clarke. Mr. W. L. Currie was also there during the After luncheon and the loyal toast, the Chairman stated that many letters had been received with respect to this presentation, indicating the great regard with which Sir William Glyn-Jones is held throughout the drug-trade. In handing over, in the name of the members, a solid silver soup tureen and a canteen of silver, Mr. Keall said he hoped that Sir William and Lady Glyn-Jones would be spared to enjoy long life and good health. The toast to Sir William was received with "For he's a jolly good fellow." On rising to respond. Sir William said it was difficult to express what he owed to his fellow-pharmacists. He then gave a few reminiscences, harking back to November 1895, when he felt it was immoral to sell things without profit—an opinion he still has. The names of those who were with him atthe inception of the Proprietary Articles Trade Association were mentioned, and the part played by Lady Glyn-Jones. The P.A.T.A. was likened to a machine; its carrying capacity must not be overloaded. He then contrasted the first P.A.T.A. list, issued July 1906, with the present-day one, and indicated the debt pharmacists owned to the pioneers among the manufacturers. There is no reason to change the policy at present followed. Brief reference was made to the meeting held in the Memorial Hall (C. & D., July 5, p. 53). If that meeting were a microcosm he would conclude that little could be done for pharmacy. The ill-manners and feeling displayed would have made a gathering of dock-labourers feel discredited. But he did not believe it, and that was why he would continue to devote his energies for pharmacy's sake. Upwards of 500 congratulatory letters had been received by him on his recent honour, and he felt he would be a traitor not to do as pharmacists wished.

# British Scientific Products Exhibition.

THE second of the Exhibitions organised by the British Science Guild was opened at the Central Hall, West-minster, on July 3, and remains open till August 5. Lord Sydenham presided at the formal opening, and among other speakers were the Marquis of Crewe, Lord Moulton, and Sir Richard Gregory. Lord Moulton, speaking from his experience as an adviser to the Government during the years of war, reiterated, with a difference, the warning he gave at an early stage of the great conflict (C. & D., II., 1914, p. 741). He said that it was obvious that the Germans were taking pains over particular products so as to produce them of a better and more uniform quality, and therefore making them more valuable to the English consumer. And he found that the English manufacturers were too frequently content with a quality which they could sell in large quantities, and for which they had a safe market, and were not realising that this advance in quality would gradually bring with it a greater demand, and would make the wholesale trade pass into the hands of their competitors. It was true that the English manufacturers took lessons from the German salesmen, but the real question was how should we get England to produce the articles of higher quality, at reasonable prices, which they had been enabled to make by means of the patience and industrial research carried out for so many years. We were like an old-established house; they were like a young house that wanted to make a business.

In our account of last year's Exhibition (C. & D., 1918, p. 645) we indicated that the prosecution of the war had necessarily limited the number and scope of the exhibits. That difficulty, happily, no longer exists, and the index in the catalogue shows an increase of about 50 per cent. in the number of exhibitors. This year's display is in other ways also an improvement on that of last summer: it is better housed, and the stands are, in the majority of cases, larger. Some system of numbering them might, however, be adopted for the convenience of visitors. We have selected for comment those that are of interest to the drug-trade. In the course of our conversation with some of the pharmacists and others in charge of the stands, "the unjust by-law" cropped up—it could not be helped.

But that is another story.

# FINE CHEMICALS.

"We have recovered lost ground, and we need never lose it again," is the considered opinion of the Organising Committee of the Exhibition; and this belief is strikingly supported by the healthy appearance of the stands devoted to fine chemicals. The products of STAFFORD ALLEN & Sons, Ltd., are well-known to pharmacists, and an interesting display is being made here. Essential oil of elder-flowers, which is somewhat of a curiosity, is shown in company with many that are better known. A striking centrepiece is the fine carboy of almond oil. Boots Pure DRUG Co., LTD., have a well-placed stand filled with products many of which owe their inception to the stimulus of war emergency; among these our attention was drawn by the pharmacist-in-charge to anæsthesine, new orthoform, thiosinamine, homotropine, acriflavine, and a whole row of synthetic aromatics. A neatly cartoned chloramine ointment and a non-staining flavine gauze were also pointed out as novelties. Salicylates are shown to advantage in the exhibit of the Bradford Wool Extracting Co., Ltd., and specimens of the various stages in the manufacture of phenacetin are an interesting part of this display. Crude wool fat and lanoline are also shown. The British ALIZARINE Co., LTD., claim to be the only manufacturers of dyes of the alizarine series in Great Britain, and as evidence of the skill with which they handle their own speciality have prepared a brilliantly coloured exhibit. The specimens of chemically pure anthroquinone in beautiful yellow needles and of alizarine are particularly striking. Dyes of many kinds are to be seen, and their use demonstrated, at the stand of British Pharmacy Oils, Ltd.,

who in some cases are manufacturing the intermediates as well as the dyes derived from them. Indicators and food colours are also among the chemicals turned out by this company. If there still remains anyone who doubts the ability of the British manufacturer to rival the Germans in the production of fine chemicals, a visit to the stands of THE BRITISH DRUG HOUSES, LTD., will do much to dispel such fears. For here are nearly a hundred chemical products formerly obtainable only from the great German companies. The exhibit of this house is shown on three stands, devoted respectively to fine chemicals, stains and reagents for microscopic work, and analytical reagents. Among the first division are intramine, the non-arsenical medicament used in the treatment of syphilis and other protozoal diseases; barium sulphate for x-ray work; and di-iodocaffeine hydriodide, a salt which has been found useful in gout and rheumatism. The section devoted to microscopic reagents comprises over forty products-in many cases from two to four times the strength of the standard stains supplied by German manufacturers. A comprehensive series of indicators is shown in the analytical-reagents section. Pharmaceutical and analytical chemicals comprise the exhibit of Burgoyne, Burbidges & Co., Ltd., which incidentally represents work in the extraction of active principles. "A.R." chemicals and sodium sulphate in "sago crystals" are among the other features of a comprehensive display. There is a wide range of products in Burroughs Wellcome & Co.'s exhibit. The firm's activity in alkaloidal production is shown by the specimens of cocaine, hyoscine, emetine, sparteine, and other alkaloids and alkaloidal salts. Chemicals such as aspirin, phenacetin, and sodium salicylate are to the fore, as also are anti-septics like chinosol and "Tolamine." The facts relative to the introduction of "Kharsivan" and "Neokharsivan" and the steps illustrating the synthesis of these products are demonstrated. The exhibit of the Wellcome Chemical RESEARCH LABORATORIES illustrates some branches of the scientific work of this institution. The diagrammatic chart showing the resolution of hyoscine and its hydrolytic products into their optically active components indicates a recent phase of their activity. Of interest also is the section dealing with investigations into glyoxaline and the alkaloids derived from it. Sodium gynocardate, used in the treatment of leprosy, is displayed, together with related substances. The exhibit of the Wellcome Physiological Research Laboratories directs special attention to the anti-gas gangrene serums and the influenza vaccines. Both these new products were produced during the war period, and, in addition, typhoid vaccine and tetanus antitoxic serum were prepared in vast quantities for use of the allied armies in the field. W. J. Bush & Co., Ltd., have an exhibit consisting mainly of organic chemicals prepared synthetically, such as a series of esters, eugenol, pseudoionone, and vanillin. In spite of the difficulties in obtaining the special plant required, this company is well equipped to meet German competition in the supply of scientific products Joseph Crosfield & Sons, Ltd., have an exhibit of synthetic perfumes backed by tall glass cylinders of glycerin in various stages of purification. The fine chemicals exhibited by Holt, THOMPSON & Co., LTD., include excellent specimens of salicylates, acetanilide, hexamine, phenolphthalein, citrates, and citric acid. HOPKIN & WILLIAMS, LTD., In addition to their wellhave an interesting show. known guaranteed chemical reagents, of which they claim to have been the originators, chemical products of scientific interest are in evidence. For example, calcium tungstate is recommended for coating x-ray screens in place of the more expensive barium platino-cyanide. Soda asbestos to replace the potash for absorption of carbon dioxide in the estimation of carbon is also shown. Monazite sand from Ceylon in the form of cubes is exhibited as a chemical curiosity, and a set of photographs illustrating the company's monazite works in Travancore is another interesting component of an altogether pleasant exhibit. Thomas Kerroot & Co., Ltd., are making a special feature of bacteriological sugars. Kerocain in various forms is in evidence, as are also other well-known products of the company. The supply of salicylates made in this country should now be sufficient for all home and export requirements. The display in this line of the London Chemical Works, Ltd., is a varied one; benzoates are also included. Pierson, Morrell & Co., Ltd., show aspirin, salicylic acid, phenacetin, methyl salicylate, etc. Incidentally, they point out that they are the original British makers of aspirin, which is seen here in crystals of dazzling whiteness. A. Boake, Roberts & Co., Ltd., have a fine range of synthetic perfumes, esters, aldehydes, and other organic compounds. The exhibit of acetates is particularly varied, ranging from acetic anhydride and acetic acid, prepared by synthesis from acetylene, to the more highly complex organic preparations. Metallic acetates are also shown. Sulphuryl chloride for dyemakers is prepared by this company, which has now at work on the product a considerably enlarged plant.

# HEAVY AND GENERAL CHEMICALS.

Although some of the chemicals grouped under this heading are of scientific rather than commercial interest to the pharmacist, there are many interesting specimens that visitors from the drug-trade may profitably spare a few minutes to examine. Albright & Wilson, Ltd., are showing an extensive range of phosphorus preparations, including some fine lumps of glacial metaphosphoric acid. They have also on view tungsten powder, which they were the first manufacturers in England to produce after the outbreak of war. Among the rarities in their exhibit are lithium and phosphorus hydride. The British Cyanides Co., Ltd., are showing potash salts. A striking part of the exhibit is the display of potash ferrocyanide and ferricyanide in large crystals. The landin shown by THE BRITISH LANOLINE Co. is a reminder that the preparation of lanolin, which was for long a German monopoly, now ranks as an important British industry. BRUNNER, MOND & Co., Ltd., have on view some needle-crystals of ammonium nitrate about 2 ft. in length, in addition to other fine specimens of chemicals. "Salamac" (compressed ammonium chloride), resembling in shape and size a 1-lb. bar of soap, is another speciality to be seen, as also is "Crex," a cleanser. Some of the "heavies amongst the chemical products are to be found at the stands of the CASTNER-KELLNER ALKALI Co., LTD., and THE WESTON CHEMICAL Co., LTD., together with chlor-benzene compounds. Chlorsulphonic acid, which enters into the preparation of saccharin, is a staple product of STENCER CHAPMAN & MESSEL, LTD., and other acids are also "featured" in this company's exhibit. Chlorethers, Ltd., are specialising in the preparation of ethylating agents and of "intermediates" for dye-manufacture. Phenols, their homologues and esters, are the staple products exhibited by R. GRAESSER, LTD. British lysol and synthetic principles, e.g., anisole and phenetole, are also amongst the synthetic preparations of this company. uses of ethyl chloride extend considerably beyond the application of this ester as an anæsthetic, as an inspection of the stand belonging to Hedley & Co. (Leytonstone), LTD., will show. A speciality of the company's is a series of "Dridustsol" products, which consist of various medicaments dissolved, or suspended, in ethyl chloride. For this form of medication it is claimed that much closer association of the medicament and the wound is obtained than by the application of ointments. Another series of interesting products is ethyl chloride in sealed tubes for laboratory use in ethylation. "Infinite riches in a little room"—the old phrase recurs to the mind when standing before the collection of precious metals and their salts brought together by Johnson, Matthey & Co., Ltd. Here are to be seen silver (precipitated by electrolysis), salts of molybdenum, zirconium, osmium, ruthenium, and other rare elements, and platinum filament voos inch thick. Copper sulphate and "Blighty" Burgundy Mixture are the chief features of the stand occupied by the Mond Nickel Co., Ltd. It is explained in a pamphlet distributed at the exhibition that the whole of the precipitate formed in the completed spraying liquid is colloidal, and that the mixture needs no testing before use. The exhibit of the ROTHAMSTED EXPERIMENTAL STATION includes an illustration of the effect of various manures, as shown

on the Broadbalk Wheatfield, where continuous experiments have been carried out since 1843. The effect of fertilisers on the crop yield is shown, and the reduction which follows the omission of one or more of the important constituents—e.g., potash. The South Metropolitan Gas Co., Ltd., have an interesting entry in the catalogue showing that since the beginning of the war they have undertaken the manufacture of a large number of intermediates and other products. A curiosity in their exhibit is a fountain consisting of fine particles of dry sulphate of ammonia in place of drops of water. Britishmade blues are a feature of the stand of The Gas Light and Coke Co., Ltd.

GLASSWARE. For our present purpose the glassware shown may be divided into (1) optical glassware, and (2) apparatus and instruments. The following members of the British Optical Instrument Manufacturers' Association, Ltd., are represented, among others, and collectively form an impressive and instructive display: Mr. Charles Baker, R. & J. BECK, LTD., CHANCE BROS. & CO., LTD., HEATH & CO., LTD., ADAM HILGER, LTD., ROSS, LTD., TAYLOR, TAYLOR & HOBSON, LTD., and W. WATSON & SONS, LTD. Some interesting information concerning their activities during the war is given in the catalogue, and is supplemented by the descriptive entry of Chance Bros. & HUNT, LTD., from which it will be seen that this company makes seventy different types of optical glass, and that the output has been increased twentyfold since the year 1914. "Crookes" (Anti-glare) glass and heat-resisting glass are other features of the large stand occupied by the well-known Midlands company. While in the neighbourhood of these exhibits, the fine aerial photographs shown by Taylor, Taylor & Hobson, Ld., should not be overlooked. The shadows of the trees stand out with startling distinctness. Amongst the exhibits showing the advance made during the last year in the manufacture of optical glass is that of the DERBY CROWN GLASS Co., LTD. The various stages in the course of manufacture are illustrated, and there is a selection of optical glass as supplied to opticians. Specimens of the late Sir William Crookes's "Anti-glare" glass and triplex lenses, the value of which has been fully realised in recent experience at the Front and in the air, are shown by Melson Wingate, Ltd., and The "Anti-Glare" Glass Co., Ltd. Turning to pharmaceutical and laboratory glassware, a comprehensive display is made by the British CHEMICAL WARE MANUFACTURERS' ASSOCIATION, LTD., and the British Laboratory Ware Association, Ltd., including such desiderata as Petri dishes, Roux bottles, Kjeldahl's flasks, and Allihn's condensers. Mr. James J. Hicks shows scientific instruments of many kinds, including clinical thermometers, now no longer swallowed up by Government demands. Hyposol, Ltd., have a neat case filled with scientific and medical glassware, and, by way of light reading, flower-vases enamelled with verses. THERMOS, LTD., display their vacuum flasks, together with liquid-air vessels, in several sizes; and they have also on view a specimen of the cylinders used to collect samples of poison-gas in the trenches. These cylinders were exhausted of air, sealed, and left with a point that could be broken off when the time came to lay the cylinder in position for receiving the gas—a sufficiently risky opera-tion. Mr. Joseph Long has a range of thermometers, hydrometers, and other instruments for use in the research or the commercial laboratory; and displays of similar ware are made by DRING & FAGE, MR. H. J. ELLIOTT, Howard, Rawson & Co., Ltd., and the Scientific Supplies Co., Ltd. The Thermal Syndicate, Ltd., have an interesting display of 'vitreosil,' a silica product with a coefficient of expansion about one-seventeenth that of glass, and thus capable of resisting rapid changes of temperature. The company's hypodermic syringes, for example, may be sterilised by plunging them into a flame—an obvious advantage in many cases. Incandescent-gas mantles of the same material have a similar superiority to those made

APPARATUS AND SURGICAL INSTRUMENTS.

One of the best exhibits of apparatus is that of Charles Hearson & Co., Ltd., who have a tempting display of

sterilisers, incubators, drying-ovens, and other requisites of modern research. This enterprising company has modified several details in the appliances shown at last year's Exhibition, with the result that they are as near perfection as appliances can be. One of the drying-ovens, for example, is now fitted with shelves of a metal both acid-proof and alkali-proof. The walls are thickly insulated, and the consumption of electric current is almost mil. The range of heat is from 50° C. to 300° C. The temperature of their "cool" incubator is, by an ingenious mechanism, guaranteed to 10 of a degree, and similar care has been taken in the details of an electrically heated steriliser. An incubator with twenty-four compartments is another of the attractive pieces of workmanship turned out by Messrs. Hearson. L. Oertling has a stand of palances of the fine workmanship associated with apparatus SCHALL & SON have an up-to-date bearing his name. exhibit of x-ray and electro-medical apparatus. FLATTERS & GARNETT, LTD., make a feature of the importance of microscopical examination of sands, and issue four series of slides on the subject. Mr. Charles Baker has a selection of microscopes, oil-immersion objectives, and similar apparatus, which is well worth a visit. Some well-finished surgical instruments catch the eye in the exhibit of Down Bros., Ltd., among them being vacuumbougies and other equally modern developments of surgery. The British Oxygen Co., Lo., have an interesting exhibit of apparatus (of their own manufacture) for tadministering oxygen, as well as of appliances for its use in welding and other trade processes.

PHOTOGRAPHIC MATERIALS.

A walk round the stand of Johnson & Sons (Manufac-TURING CHEMISTS), LTD., reminds one what a big industry the manufacture of photographic materials is. Here are almost all the developers under the dark-room lamp, glycin, "azol," paramidophenol, and the rest, including a special x-ray developer with its appropriate fixing. The company are placing some interesting booklets on development, etc., at the disposal of visitors. ILFORD, LTD., have an excellent display of their work undertaken in the field of photography. Striking results are shown of the contrast between the company's panchromatic and the ordinary sensitised plates. Evidence of the advances made in sensitising dyes is available in the colours prepared under the direction of Sir William Pope, F.R.S., who replaced the German products, sensitol red, green, and violet. Other exhibits by this company are the Ilford Tropical Hardener and the process by which silver haloid suspensions in very dilute gelatine may be concentrated by precipitation—a process which has proved of value on an industrial scale during the last three years. Graticules, which originally were prepared only in Germany, are displayed by RHEINBERG & Co. Various types are obtainable, some of which are now shown for the first time, including grainless photo chessboard micrometers with transparent squares of different sizes. The platinised and semi-platinised surface mirrors, which are in evidence at the stand, are said to be proof against cleaning, rubbing, and even scratching. Wellington & WARD have a striking array of prints on various kinds of paper, illustrating the way to get the best results out of a subject, whether it is an x-ray investigation or a bunch of flowers.

MISCELLANEOUS.

One of the most compact and, at the same time, fascinating displays is that of Mr. F. Harrison Glew, whose stand, in a kind of "prophet's chamber," is devoted to the wonders of radium. The delicacy of colour of the light given out by radium compound is not easily forgotten, and even a sponge-like mass of "waste" is seen to retain a pale glow. Mr. Glew has much that is interesting to tell his visitors concerning the uses of radium in warfare; he has made luminous star-maps for the guidance of aviators, and has contrived to reproduce celestial spaces within the limits of a lady's visiting-card. Filter-papers and filtering materials would seem, in the abstract, to be of very limited interest; but, as displayed at the stands of W. & R. Balston, Ltd., H. Allnutt & Son, J. Barcham, Green & Son, Evans, Adlard & Co., Ltd., and Farrow & Jackson, Ltd., they furnish con-

siderable food for thought. At the stall of the firstnamed, for example, there are to be seen most of the refinements of the art of counter-filtration-diffusion-cells for colloids, extra-hard paper for heavy liquids, and (greatest luxury of all) folded filter-papers with hardened tips. "Ashless" paper and fat-free strips are among the laboratory requisites displayed, and it is good to know that supplies are available again. Chemists who practice dentistry will find much to interest them in the display of THE WESTERN DENTAL MANUFACTURING Co., LTD., who undertake to equip a dental surgery in every detail. Their "Sotol" tooth-powder and tooth-paste are two smart lines of distinctive appearance, and are so agreeable in flavour that, as someone suggested at the stand, "you can eat them." The scientific pharmacist will find it well worth his while to visit the MARCONI WIRELESS TELEGRAPH Co., Ltd.'s stand, for there he will find the short-range wireless telephone installation available for inspection in addition to wireless telegraph sets of different types. Mention should also be made of the cadmium arc lamp (exhibited by Dr. H. J. S. Sand), a powerful generator of red and of ultra-violet light; and also of the "Aldis peep-sight," an ingenious lens devised for taking a wideangle view through a 12-inch brick wall or other obstacle. A sample of mustard gas supplied by Sir William Pope took a good deal of finding, and when the C. & D. man got near the cylinder he was given to understand that the product was not "on tap."

THE CATALOGUE.

The expansion of the Exhibition is plainly evidenced in the catalogue, which has 115 pages more than that of last year. It contains, in addition to a description of the exhibits, several articles on the work of University and other research laboratories during the war, and lists of industrial research associations and of scientific and technical books. Sir William Pope contributes a monograph on the photography of coloured objects; and there is much information to be obtained from numerous references to recent research. Lectures are being given every few days during this month, the first having been delivered by Sir William Tilden, F.R.S., on July 7, on "Chemistry in Reconstruction."

# Bulgarian Otto of Rose.

THE New York "Oil, Paint, and Drug Reporter" states that the entire Bulgarian crop of otto of rose has been taken over by the Government of that country, and producers have been strictly forbidden to export. By an agreement entered into between the Bulgarian Government and the United States Food Administration (Grain Corporation), the starving population of Bulgaria will be supplied with food from America, payment to be made out of the proceeds of the Bulgarian crop above mentioned. the only Bulgarian item of export to America. The total crop thus commandeered has been transported to the United States in the joint custody of the U.S. Food Administration and a Bulgarian official, L. Getshcoff, and on June 4 its disposition was discussed at a meeting at the offices of the Food Administration, attended by W. G. Ungerer, representing Pappazoglou, and by representatives of Compagnie Morana and of Antoine Chiris, agents for Christoff and Shipkoff, respectively. A lengthy discussion of the market in general terminated in the decision of the Bulgarian official that the present crop should be sold by none at a price lower than \$17.50 per oz., considerably below the anticipations of Mr. Getshcoff. It is understood that American consumers object to pay the above price, which they consider exorbitant, and it has so far not been taken up to any extent. The quantity held by the U.S. Government on behalf of Bulgaria is not stated, but it is said to be "large." Bulgaria wanted to pay for the food in gold, but the United States refused, demanding Bulgarian merchandise in payment of the debt. Immediately the Bulgarians stiffened their prices in order to reduce the debt against them as quickly as possible, and at the same time retain stocks of raw materials like otto. It would be interesting to know how much adulterated otto has been acquired by the American Government in the course of their purchases.

# Personalities.

SIR ARTHUR STEEL-MAITLAND, M.P., Head of the Department of Overseas Trade, has tendered his resignation to the Prime Minister.

A CERTIFICATE OF NATURALISATION has been granted to Mr. A. J. Somer (Roumanian), 11 Clarence Road, Mottingham, Kent, pharmaceutical chemist.

MR. H. T. MORLEY, pharmacist, Love Lane, Stockport, who has recently undergone an operation for appendicitis, is now well on the way to recovery.

MR. CASWELL A. MAYO, for twenty-seven years editor of the "American Druggist," New York, has resigned to join the Wm. S. Merrell Chemical Co., Cincinnati, Ohio.

Bro. S. F. Clark (Boots, Ltd.) was, on July 2, installed Most Noble Arch of the North Sheen (Surrey) Lodge of the Ancient Order of Druids for the present

MR. JOHN BIRKETT, Ph.C., Morecambe, is among the new magistrates appointed to form the first court for the borough. Mr. Birkett was elected Mayor of Morecambe in 1914.

Mr. W. P. Bowman, proprietor of Goodall, Backhouse & Co., Leeds, has presented to the North-Eastern Produce Merchants' Federation a silver golf trophy, for annual competition.

MR. THOS. LEWIS, Ph.C., F.S.M.C., manager with Boots, Ltd., at Wine Street, Bristol, has been appointed lecturer in pharmacy in the new department at the Cardiff School of Technology.

MR. JOHN TAYLOR, J.P., chemist and druggist, Lucius Street, Torquay, has had conferred upon him the Masonic honour of Past Grand Standard-Bearer of England. Mr. Taylor is the holder of several other Masonic degrees.

Mr. Douglas Kelman, formerly of Robinson, Kelman & Co., drug and chemical merchants, Mark Lane, London, has been appointed buyer of the drug and chemical department of E. Gihl & Co., Ltd., exporters, 61 Old Broad Street, London, E.C. 2.

AT a whist-drive held by the Ealing and District Pharmacists' Association on March 19, a prize was offered to the lady who guessed the date nearest to that of the signing of peace. It has been ascertained that the winner is Mrs. Merritt, Lovelace Gardens, Surbiton, who gave

MR. W. E. CLARKE, chemist and druggist, who has just been released after serving for over four years in the R.A.M.C., has reopened his pharmacy at 169 Ewell Road, Surbiton. Mr. Clarke joined up in September 1914, serv. ing as dispenser on the Royal Edward when it was used as an internment depôt for German prisoners of war. He was subsequently transferred to Frith Hill, Aldershot, to the Isle of Man, and ultimately to the Curragh Military Hospital.

MISS KATHLEEN M. METCALFE, one of this year's Bell scholars (C. & D., July 5, p. 52), is the daughter of Mr. J. T. Metcalfe, chemist and druggist, Shirley, Birmingham, and the niece of Mr. W. E. Metcalfe, Ph.C., Shipley, Yorks. Miss Metcalfe gave early promise of a successful career by winning, in 1911, a West Riding C.C. Scholarship, tenable at the Girls' High School, Settle, where she eventually became head pupil. In 1916 she passed the Northern Matriculation Examination, and has gained most of her pharmaceutical experience with Mr. Franklin Barlow, chemist and druggist, Buxton, and C. F. Palmer & Co., Birmingham. Miss Metcalfe's career will be watched with much interest.

MR. FRED. WILSON, who for many years represented, and during the last six years acted as assistant manager for, Bleasdale, Ltd., York, has recently been appointed manager of J. F. Macfarlan & Co.'s Edinburgh offices and warehouses. Mr. Wilson was recently presented, at York, with a testimonial in recognition of his activities in the musical life of the city. The Lord Mayor made the presentation at the Ebor Rooms. Mrs. Wilson was also included in the gift, which consisted of a canteen of cutlery and a case of fish-knives, forks, and carvers. Among the subscribers were many of the leading citizens. Mr. Wilson also had another pleasant ordeal in York: the parishioners, choir, and clergy of St. Martin's-le-Gravit, Coney Street, presented him with a Sheraton clock.

MR. RICHARD WOODGATE, the much respected manager for William Edwards & Son, 157 Queen Victoria Street,

London, E.C., retired at the end of June after over sixty years' service. He was entertained to dinner at the Holborn Restaurant by the three partners of the firm, and leaves with the goodwill of all his colleagues, who wish him many pleasant years of well-earned retirement. Mr. Woodgate joined the business in 1859 as a junior clerk, the premises being then in St Paul's Churchyard. After six years the firm moved to Old Change and subsequently to the present address, being one of the first to occupy business premises in what was then a



MR. RICHARD WOODGATE,

newly constructed street. It was during the Old Change era that Mr. Woodgate was called upon to take charge of the warehouse, owing to the sudden illness of the chief warehouseman. Subsequently the position of traveller in the Eastern Counties was filled temporarily, and in 1871 he began a sixteen-year turn on the road, where he became acquainted with a large number of chemists in business. In 1887 he was appointed manager of Messrs. Edwards business, succeeding Mr. Fitt, who had held the position for three years. It is interesting to note that Mr. Fitt's predecessor, Mr. Henry Woodall, celebrated his jubilee with the firm before his retirement, a presentation being made to him at the time by the late Mr. William Edwards, father of the present head of the firm. Mr. Woodgate received an inscribed silver tea-tray in 1909 on the occasion of his jubilee. He is happily married, and has seven sons and daughters and twelve grandchildren. His hobby is Masonry, and he was recently invested with the collar of Provincial Grand Deputy of Surrey.

JUDGE RENTOUL, K.C., of the City of London Court, has tendered his resignation on the ground of ill-health. He was appointed in 1904, and was well known to the commercial world. Some of the Judge's witicisms spoken on the Bench are interesting, and reveal his personality.

"Some barristers and solicitors buy old papers in legal come partisets and solicitors buy old papers in legal proceedings to put round their rooms. It makes eallers think they have a lot of business." (To two Counsel): "Don't interrupt. People will think you are young solicitors."
"I generally try to get round cases and do justice between the parties all round."
"We would see the parties and solicitors buy old papers in legal proceedings to put round the parties and solicitors buy old papers in legal proceedings to put round their rooms.

"We are all agreed on this matter, but we have not come to an understanding.

"No man nowadays reads an affidavit before swearing it."
Gambling is nothing but a religious duty in this country,

cambring is notating but a religious duty in this country, some people think."

"Nothing is certain that is ever proved in Court."

"I remember the day when I could not have found 40% if my entrance into the Kingdom of Heaven had been dependent on it."

"People often say their incomes are bigger than there is the country of the country incomes are bigger than the country."

People often say their incomes are bigger than they

"People often say their incomes are bigger than they are, unless the figure appears in Whitaker's Almanack, or somewhere like that, which they cannot get round."

"When the law enabled judges to make committal orders it was an Act of the Legislature that was against the feeling of the people generally, and the result was that the people met it in an excellent way by every doubtful man putting into his wife's name all he had. They were able to get round the law in that way." get round the law in that way."
"Oaths in this Court are as cheap as dirt."

"I once sent back a cheque to a solicitor because it was too small; but I got none at all then."

"No matter what the evidence is, I will not make a committal order during the war. If I am wrong, I ean be set right by the higher powers. As Sir Edward Clarke says,

# Observations and Reflections.

By Xrayser II.

The By-law is Dead.

Conceived in some secret and, as there is reason to believe, illicit intrigue, it came to a painful birth in a distracted Council, only to suffer a shameful death at the meeting of July 2. No by-law, not even a just one, could survive such a meeting as that, at which its proposers fled from the scene, dismayed at the storm they had provoked, leaving their unhappy offspring to the tender mercies of its opponents. I suppose the President was legally justified in declaring the meeting incompetent, but, however this may be, he and his supporters, by the whole conduct of this affair, culminating in a fiasco which ordinary political sense would have foreseen, have excited the pity of the Society they misrepresent. What will be the next step? Another meeting or a referendum, or (possibly) the temporary dropping of the scheme. Whatever it may be, the by-law is dead.

# The Result of any Future Meeting

or of a referendum, should that prove possible, can only be a more emphatic condemnation of it than that passed at the meeting of Wednesday after the President and his Secretary champion had decamped—that is, unless we are caught napping. Relying upon the natural reaction of last week's enthusiasm, and the inertia that may follow, an attempt may be made at a hastily summoned meeting to push the thing through. Against this we must be on our guard. Meanwhile the statement printed in some of the daily papers that this by-law was "made in the interests of those who have lost three of the four years of their time by service in the war"—an impudent mis-statement, wherever it originated—ought to be publicly contradicted. And of one thing we may be sure—that the Council itself, however it may at the time resent being thwarted, will, when it returns to sanity, thank us for having saved it from itself.

# The Bargain,

it seems, has not been divulged after all, or only very partially so. Even so well-informed a man as Mr. Guthrie knows nothing about it, and when he applies to Mr. Wolff, of all people in the world, for information, and is by him naturally referred to Mr. White, the President jumps up and applies the closure. The thing that most intrigues me, however, is neither Mr. White's silence nor Mr. Currie's nimbleness, but the way in which the majority of the Council, and especially such members as Miss Buchanan, Mr. Deakin, and Mr. Jenkin, of whom we once had hopes, follow their lead like automata in a string. Mr. Jenkin, it is true, seems to feel a necessity to explain his action, but the only reason he gives for it is the exploded official one that we are merely paying what we owe for the benefits we receive from the precious Act of 1908. I mentioned this to a friend in the country, a delegate to the last Conference of Associations, and he began to jump about in an excess of Celtic excitement. "That Act," he said, "did us more harm than anything else has ever done."

# The Suggestion

to leave the Society if it persists in its unpopular policy, which is made by one of your correspondents, has been anticipated by several of my friends who left it years ago with, perhaps, less reason than exists at present. I have more than once asked others who have complained bitterly to me of this or that action of the Council why they, too, do not give up their membership. "Well," the reply has been, "you see I have the letters "M.P.S." on all my labels, billheads, and other business stationery, as well as on my shopfront, and to scrap all this, as I should have to do, would cost me an amount far exceeding many years' subscriptions." No doubt the Society has a pull here, but what shall be said of a Society that only retains

its hold on its members by such means? And what, I venture to ask further, shall be said of those members who are thus held when the very principle for which they stand as pharmacists is at stake?

# Of Dispensing for Doctors

I have had a fair share of experience, and I have no doubt that on the terms laid down by Dr. Colvin-Smith it would be well worth doing. It may be true that, as many will maintain, the time and labour spent on such dispensing would be more immediately profitable if spent in cultivating a purely retail trade, though personally I do not admit that in the majority of cases it would be, and in any case my own predilection would be for the dispensing. That, however, is neither here nor there, but it is important that we should remember what we stand for in public estimation. In stail trade anybody may compete with us; indeed, in specialising on that we are inviting competition, and competition (I may add) in which we are seriously handicapped, and for which we are ill-equipped. It is a fact we ought not to forget that it was our adventure into "fancy trade" and the like that first led the stores to compete with us in our own line.

# "The Actions of Drugs,"

by Torald Solmann, M.D. (W. B. Saunders Company, Philadelphia and London), is a very useful book for a pharmacist to have on his bookshelf, though, in spite of the author's declaration (which is quite true) that a knowledge of the subject with which it deals is "essential to the professional pharmacist," it would seem to have been intended chiefly for the medical practitioner. Dr. Solmann, is careful to warn his readers that only those who have passed a four-years' course of study in anatomy, physiology, pathology, etc., can usefully or even safely apply what they learn from this book in actual treatment—and indeed one, and perhaps the most useful lesson, the mere pharmacist will learn by perusing it is the danger attendant upon unqualified practice, A good deal of the information given in the earlier chapters on the different classes of medicines is common knowledge to the educated pharmacist, but it is imparted clearly and freshly, and so as to impress itself upon the mind. The freshly, and so as to impress itself upon the mind. section dealing with poisons and poisoning (thirty pages) will be the most directly useful to the pharmacist, but there is little or nothing in the book which it does not behove him to know, and much of it is of a kind that does not enter into our ordinary course of study.

# Whortleberries

would no doubt yield a good dye; indeed, the women of Northern Russia are said to use them with alder and alum to dye their hair bright red. 'Gerard says the red whortleberry (or cowberry) has a juice "of so Orient and beautiful a purple to limme withall, that Indian Lacca is not to be compared thereunto, especially when this juice is prepared and dressed with Allom according to art, as my selfe have proved by experience." He refers to Pliny as saying that the name Vaccinia was given to the plants bearing it because they were used to dye clothes, and no doubt whortles were used in medicine partly because of their value as colouring matter, though they were credited with cooling and astringent properties.

# The Word "Tarragon"

is said to be derived from the Latin tragonia (later found as tarchon), in Spanish taragontia, and by a not unnatural confusion it came to be applied to two very different plants, Artemisia Dracunculus and Dracunculus vulgaris. The former was the Draco hortensis of old writers, the latter the "Garden dragons" of our herbalists. As the English name is said to be now obsolete, this does not, perhaps, explain the mistake of the gardener who is referred to in your note, nor is dragons a likely plant for him to supply; but it is a curious fact that it was formerly used in medicine "tempered with vinegar," though not, I presume, in cookery, for Gerard says "it scoureth and cleanseth mightily."

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# Editorial Articles.

# The By-law Aftermath.

ONE of the encouraging features of the by-law meeting last week at the Memorial Hall is that so many members of the Pharmaceutical Society attended. It shows that the general body of pharmacists takes a keen interest in problems affecting the craft as a whole. There seems to have been almost as many chemists there from the provinces as from London and the Home Counties. Many who came with an open mind, because they had had no opportunity of hearing the arguments in favour of the by-law, were disappointed at the material put before them in the private meeting. There seems, too, to have been a letter out before the meeting from "the Clerk to the

Clerk" of the Privy Council, upon which Mr. E. White and Sir William Glyn-Jones placed interpretations at variance with each other. It was Miss Gilliatt who rather cleverly drew from one of the official speakers that the difference exists, and this seems to have convinced many at the meeting that finality in the making of by-laws under Section IV. (b) of the Poisons and Pharmacy Act, 1908, had not been reached. An interesting item, which was not disclosed at the meeting, but which was talked about by some who were there, is that the Council had received a letter from the Court of Assistants of the Society of Apothecaries, informing them that the draft by-law was not acceptable to the Court. This disposes of the plea of "finality," which was the main argument relied upon by the Pharmaceutical Council. We referred last week to the fact that the special general meeting of members was not held as arranged by official notice to the members. The reason given was that many members had been unable to gain admittance to the Hall, and had signed a protest against being prevented from voting. Whether with good reason or not, there is a strong feeling that this method of burking the issue was a question of tactics, and had been carefully pre-arranged. One of the members who was present tells us that the Hall was certainly very full, but he assures us that by removing the chairs all those who wished to could have obtained standing room. If the officials arranged this move to avoid a heavy fall, it was at least unnecessary, as there has never in the history of pharmacy been a meeting so unfriendly to the Council. The President promised the meeting that he would consider the question of a referendum to the whole of the members of the Pharmaceutical Society, and we gather that if the opinion of the majority is against confirming the by-law it will be withdrawn. This is a fair offer, but our view has been that there is really no need for a referendum, as the opinions of the majority of the members are already sufficiently known. We considered the question of an unofficial referendum some time ago, on the suggestion of a local Chemists' Association, but it did not seem to us that there was present the element of reasonable doubt which is needed in such a case. We think the Pharmaceutical Council would be well advised to announce that the by-law has been withdrawn, but perhaps if they prefer to take a referendum first we ought to allow the Councillors to use it as a ladder for an easy climb down. The thanks of chemists are due to the members, many of whom, at great inconvenience and expense, attended the by-law meeting, and the initial success of the By-law Protest Committee encourages the hope that that enterprising body may make further victories. Despite the disappointment which hundreds of chemists experienced at the postponement of the statutory meeting, it appears that some permanent good may result. We hear that a strong movement has already been initiated by the By-law Protest Committee, the object of which is to fight the next three or more elections until all the Councillors who went through the farce of "reading" the unjust by law at three Council meetings have been displaced by other Councillors more in touch with the trade. The next election is not till May, and we should not be surprised to find that before then several of those who will have to seek re-election have resigned or decided not to contest the seats. We would not be hard on repentant Councillors. Several correspondents have made the suggestion that the Council should resign in a body, or rather that those Councillors who voted for the by-law should resign. This proposal is unfortunate, as it would merely result in paralysing the important work of the Society as a Government Department engaged in administering the Pharmacy Acts. There is no system of by-elections in the constitution of the Society, only the discredited method of co-option. Even this could not be carried out, as the "faithful" members are not sufficient to form a quorum, which could transact business. It will probably happen that, following precedent in the case of the Poison Regulations, the President will tender his resignation. He clearly has not the confidence of the members of the Society, and it is necessary to accept

the verdict which was given at the Memorial Hall with no uncertain voice. Mr. Currie has not been a conspicuous success in the position to which he was elected in 1918, but we must remember that he has had to face a whole crop of difficulties which had been shelved during the war. The by-law meeting has attracted some attention in the daily Press, but we are sorry to see that the "Daily News" makes the erroneous statement that "the proposal has been brought forward in the interests of the men who have lost three or four years of their time by service in the war." As is well known, nothing is further from the truth; indeed, if this element had been present we know that many chemists would have taken a sympathetic view of the matter, or at least have tried to find the sympathetic halicing the sympathetic sym tried to find a way of helping the applicants which would not violate the canons of pharmacy law. The men who have been agitating for admission to the Register of Chemists and Druggists by the back door are not warworn heroes; they merely took advantage of the fact that most people's energies were concentrated on winning the war to push their claims on the Privy Council. sinecure officials of that body, ever jealous of the powers given to the Pharmaceutical Society by the Pharmacy Acts, were only too willing to use their influence in thwarting the aspirations of pharmacists. It is the old tale of the jealousy of rival Government Departments. In the present instance we hope that the Privy Council has started up from its mediæval sleep to realise that we are in the twentieth century, and not in a mood to submit to interference in regulating pharmacy and ensuring the safety of the public according to the trust reposed in the Pharmaceutical Council by the Royal Charter and the Pharmacy Acts.

# The Importation of Chemicals.

The restrictions on the importation of "chemicals of a high degree of purity" is the uppermost topic of conversation in market circles, especially among importers and consumers, and many complaints are likely to arise unless the Proclamation is administered in a fair and impartial manner, and with an adequate protection of the consumer's interests. At the moment nobody, with the exception of the Association of British Chemical Manufacturers and the members of the Committee now in process of formation, know what the Government's intentions are. On the surface it looks as if the import chemical trade is on the eve of changes of a drastic and far-reaching character, which will result in the business of the middlemen being severely curtailed and jeopardised. Evidently it is found necessary, in the interests of the British maker of fine chemicals, to restrict the activities of the importer; but at the same time the Committee will no doubt endeavour to pacify all parties as much as possible in the granting of licences for absolutely necessary chemicals, at the same time screening their own operations. Hitherto the chief trouble of Government control has been the refusal of licences to one firm and the granting of licences to competitors without reason for the discrimination, and this gives rise to much criticism. Unless adequate facilities are to be given for importation the consumer is likely to be penalised, and this is being done at the present time. Vanillin affords a concrete instance of this, the price having gradually advanced 10s. per lb. within a month, the fear that import licences will not be granted having accentuated the position. At the present time the English makers are unable to cope with the whole of the home and export demand, and we are given to understand that they cannot give regular and stated deliveries over the whole of the period of their forward contracts. At the same time, there appears to have been an expansion in the consumption of vanillin as a flavouring agency, and the demand for the moment has outrun the supply. Should those old-established importers who have imported vanillin prior to the war be unable to obtain import licences, it is reasonably claimed that restrictions should be placed on exportation until the situation is eased. As it is, vanillin may be freely exported without licence, and this, of course, has contributed to the scarcity at home, especially as we have

noted shipments of several hundredweight at a time. It is, therefore, the duty of the firms or Associations who guide the decisions of the Department of Import Restrictions to ascertain, with a liberal margin for increased use, the quantities required by the home and export trade, not forgetting the fact that the dealer whom the maker frequently sells to and buys, from is entitled to fair treatment. doubt importers of vanillin and other chemicals prior to the war will be allowed a quota of their previous imports over a certain period. As it is, business in many items is suspended, awaiting a definite pronouncement from the Board of Trade, and sellers of a number of 'imported American chemicals are withholding quotations. Since writing the above we understand that the American Chamber of Commerce in London has been in communica-tion with the Board of Trade in regard to the restrictions on import and export trade with the United States. The Chamber requested that there should be public hearings of applications for licences, but the Board refused to admit merchants to their conferences. In answer to the inquiry of the American Chamber, the Board said they consulted responsible firms or Associations before making recommendations. In order to protect the interests of the merchant or importer of chemicals, it is suggested that a member of the trading section should be elected to the Committee now being formed.

# Power Alcohol.

The Report was issued this week of the Inter-Departmental Committee which has been considering the production and utilisation of alcohol for power and traction purposes. This was the Committee of which Sir Boverton Redwood was chairman at the time of his death. He died just before the final draft was prepared, but is known to have been in complete accord with the findings. The reference was to consider and report on:

(1) The various available sources of supply of alcohol, the methods of manufacture, and the cost of the product; (2) the suitability of alcohol, either alone or in admixture with solid, liquid, or gaseous combustible substances, for use in internal-combustion engines, and the modifications of the existing types of such engines which may be necessary to the attainment of efficiency; (3) the quistion of denaturing the alcohol, and the alterations to be made in the present Excise arrangements.

The Report refers to the Departmental Committee on Industrial Alcohol of 1964, in which the observation is made that any question of the use of spirit for motor which is one of price. Since that time the price of motor spirit and alcohol have more nearly approached each other, and hence the conditions are in sight to which the Committee of 1904 referred. Incidentally, the Report prefers to employ the term "power spirit," as reports have been received to the effect "that some sections of the community believe that the words industrial alcohol refer to an inferior spirit for drinking purposes." Reference is then made to the scientific research which Professor H. B. Dixon is carrying out at Manchester as to the behaviour of alcohol, alcohol-benzol, alcohol-ether, and other alcohol-mixture vapours on their combustion with different volumes of air and with varying percentages of water and denaturants. The experiments which are being carried out by direction of the Committee are expected to occupy six months. mercial trials are also being made at the present time. Lord Moulton, in his capacity as Director-General of the Explosives Department of the Ministry of Munitions, was present at the meeting of the Committee when the question was considered of the synthetic conversion of ethylene into ethyl alcohol. The ethylene is available in coal- and coke-oven gases, and forms a large potential source of power alcohol, but further investigations are necessary before definite figures as to quantities and price can be given. In regard to the vegetable sources of alcohol, the Committee find that in numerous sugargrowing areas large quantities of molasses are allowed to run to waste. Mahua flowers are mentioned as a possible source of alcohol. One witness stated that the

sun-dried flowers contain on the average 60 per cent, by weight of fermentable sugar, that they can be collected and delivered to the factory in the zone of growth at 11. 10s. per ton, and that the yield on proper fermentation. and distillation is found to be about 90 gallons of alcohol (95 per cent. by volume absolute) per ton. He further stated that the flowers can be pressed, packed, exported, and stored for long periods without deterioration. The prospective production of alcohol from other vegetable substances obtainable within the Empire is encouraging, but alcohol could not be produced economically from potatoes and artichokes grown in the United Kingdom. Peat is mentioned also as a potential source, but for raw material we must rely mainly, if not entirely, on in creased production in tropical and sub-tropical countries. Sir James J. Dobbie, the Government chemist, gave the Committee a Report upon denaturants and denaturing alcohol so that it shall be unfit for human consumption and proof against illicit purification. The use of alcohol as a fuel for power or traction purposes in the United Kingdom has not been commercially practicable hitherto by reason of the high price compared with that of petrol. Since the denaturing process now in use admittedly in creases the cost, sometimes by as much as 6d. per gallon, the increase should be restricted as much as possible by reducing the proportion of the principal denaturant, woodnaphtha. In all cases of approved use for power or traction purposes, where the user gives bond, the proportion of wood-naphtha in the power alcohol might be substantially diminished, the difference being made up, wholly or partially, by petrol, benzol, or other nauseous substance, supplemented by a small quantity of methyl violet as colouring, but in the Committee's opinion a further deterrent can be provided by the imposition of much heavier penalties than those now sanctioned by law for evasion of the spirits duty in any case of illicit purification of power alcohol to render it potable. The lowest attainable cost for denaturing power alcohol should be officially recognised as an important consideration, in addition to the necessity of securing a non-potable spirit and protecting the revenue against fraudulent practices. The Committee recommend that every effort should be made by research and practical trial to provide a denaturant or alternative denaturants—e.g., formaldehyde, pyridine, and tobacco oil—the employment of which will be effective in the smallest possible quantities and at the lowest possible cost per gallon of power alcohol. A relaxation of the usual bonded warehouse rules is recommended, and some witnesses referred to the advantages of tank-wagons in place of drums and barrels for transportation, which at present are not permitted for the purpose. The Committee recommend that, having regard to the exemption of home-produced benzol and shale motor-spirit from the motor-spirit tax (Excise) power alcohol when produced in the United Kingdom be correspondingly exempted and that, having regard to the scope for earlier large production in the Empire overseas, importation of power alcohol be permitted free of duty. All sales and deliveries of power alcohol should be made on the basis of a certified percentage by volume of absolute ethyl alcohol, with a minimum of 90 per cent. at a temperature of 62° F. The Committee are also of the opinion that in denatured alcohol, or in admixtures of alcohol, benzol, ether, petrol, or the like, sold as power alcohol, the ratio of water to alcohol after admixture should not exceed one part by volume of water to nine parts by volume of alcohol measured at ordinary temperatures. It is further considered that when benzol, ether, petrol, or the like are mixed with alcohol in quantities in excess of those which may be legally required as partial denaturants the nature and amounts per cent. by volume of such components should be plainly stated on the containers of such mixtures and on the contracts, sales-notes, and invoices dealing therewith. The relative advantage is pointed out of alcohol over petrol as regards safety from fire, due to the fact that alcohol is miscible with water in all proportions. The Committee conclude that the problem of the future action to develop production and foster utilisation is one for the Government, which should initiate and supervise experimental and practical

development work by means of a permanent organisation. The Report (Cmd. 218), published at 2d. by the Stationery Office, is interesting reading, and manufacturers of alcohol and methylators will especially note the recommendations for relaxing some of the many restrictions at present imposed by the Excise on manufacturers. It is probably one of the effects of the war that even Government officials are inclined to take more liberal views regarding Excise regulations.

# Six Months' Foreign Trade.

THE Board of Trade Returns for June show a considerable expansion in trade compared with the corresponding month of last year. The imports rose by 21,400,900% to 101,544,700%, and the exports by 19,536,100% to a total of 64,562,300%, for the month. Under the section of food, drink, and tobacco there was a net increase of 7,777,300l., imports of dutiable food and drink advancing in value by over 12,000,000l. Raw materials and articles mainly manufactured increased over 15,000,000l., wool and cotton being chiefly responsible. There was a slight increase of 168,000*l*. in oil seeds, nuts, oils, gums, etc., our imports amounting to 9,979,400*l*. There were much larger receipts of linseed and rapeseed, also coconut, palm, and turpentine oils. Petroleum fell from 98 million to 68 million gallons. Articles wholly or mainly manufactured fell by 1,445,600*l*. to a total of 16,026,000*l*. Imports of chemicals and the like for the month were 805,800l. less, standing at 1,775,812l. Brimstone, calcium carbide, and unenumerated chemicals largely account for the decline, the latter item decreasing from 1,422,600%. in June 1918 to 268,000% last month. On the export side of the account the bulk of the increase was, of course, in articles wholly or mainly manufactured, the aggregate advance being almost 13,000,0007. Chemicals were 40,9001. less, registering 1,946,700l.; but it must be remembered that June this year had two working days less than June 1918.

Turning to the six months' trading, we give the following figures, showing the increases compared with the

corresponding period of 1918:

Six months ended June 1919.

... 717,034,500 ... 334,755,000 + 64,793,000 + 87.922.600 Imports Exports +38.657,000Re-exports... 55,435,C00 \*\*\*

During the six months we purchased 321 millions odd of foodstuffs (29 $\frac{1}{4}$  millions more), 274 $\frac{1}{2}$  millions of raw materials (50 $\frac{3}{4}$  millions more), and 118 $\frac{1}{3}$  millions of manufactured goods (141 millions less). Chemical imports for the six months were:

> 1917 1919 £ 18,362,500 11,662,500 10,670,800

It will be seen that the decline in chemicals was almost eight millions sterling for the six months. Acetic acid, brimstone; cream of tartar, saltpetre, and soda compounds suffered the largest decreases in chemicals, and imports of tanning materials were on a much reduced scale. There was a notable expansion in painters' colours and pigments, 433,000 cwt. being imported, compared with 184,9f0 cwt. for the 1918 period. On the export side, the half-year's trading shows that we shipped over 13½ millions sterling of foodstuffs (7½ millions more), nearly 48 millions worth of raw materials, or 19 millions more, of which increase coal accounted for 14 millions, and of British manufactured goods the exports were 2684 millions odd, or 664 millions more, which is very satisfactory. Our chemical exports were:

> 1917 £ 1918 1919 11,360,000 11,049,500 14,328,000

The increase in this group is 3,278,550l., compared with 1918, and 2,968,000l., compared with 1917. The drug and medicine section increased by almost 632,000l., amounting to 2,152,700l., figures that testify to a rapid revival in post-war trade.

# The Pharmaceutical Society as a Trade Union.

It will be remembered that recently when the Secretary was touring Scotland in the endeavour to squelch the movement for a Scottish Pharmaceutical Federation he was confronted by an opinion obtained by this body from the Lord Advocate of Scotland. This was to the effect that the Pharmaceutical Society is precluded by its charter from dealing with questions of prices and wages. The result of the challenge was that the secretary offered to obtain another counsel's opinion on the matter. We hear now that this has been given and is favourable to the view which the officials of on the matter. the Pharmaceutical Society have taken that the powers of the Society in protecting the interests of chemists are unlimited. We have only received this information in a fragmentary form and await further details with interest. It looks at present as though another opinion will have to be obtained so as to get a majority one way or other.

Looking for Evidence.

THE time has come for the wild charges made against chemists by panel practitioners to be answered, and the doctors find themselves in a difficulty as they have no tangible evidence that chemists are not faithfully carrying on the pharmaceutical service. In the endeavour to obtain evidence the Panel Committee has sent out the following letter to panel practitioners:

The Insurance Commissioners and Insurance Committee have requested the Panel Committee to furnish them with a report from the various areas in the county on the diffi-culties experienced by practitioners with regard to the dis-pensing of prescriptions given for their insured patients. I shall be glad if you will give me information to the following points:

(1) Delay in supplying medicines.

(2) Particular ingredients not available.

(3) Short measure. (4) Ingredients omitted. Careless dispensing

(6) Inferior quality of drugs and appliances.
(7) Differentiation between private and panel prescriptions. (8) Inadequacy of arrangements for dealing with urgent prescriptions after 8 P.M. and on half-holidays.

It is necessary that actual evidence which can be substantiated should be given and not vague or general statements.

The Insurance Committee are holding an inquiry into the service, and it is of importance that we should have your replies as promptly as possible.

The method being used reminds us of the way the Privy Council and the General Medical Council obtained evidence regarding the practice of medicine by unqualified persons, but the difference is that in the present instance the medical men can be made to substantiate their charges. We shudder to think of the effect of a tu quoque movement by chemists. It is probable that the evidence obtained would be of such a nature that the Government would sweep away the present system of medical attendance and, in the interests of the public, appoint whole-time medical men.

# Medical and Dental Registers.

The General Medical Council has just issued the Medical Register for 1918 (10s. 6d., Constable & Co., Ltd.). The names of 43,926 medical men are included—an increase of 107 on the number at the end of 1917, and of 560 on the average of the last five years. For various reasons the names of 995 practitioners have been removed during 1918 from the Register, this number being 164 in excess of last year's figures, and an increase of fifty-five over the five years' average. Information regarding the various Acts of Parliament regulating the practice of medicine in this country and other matters precede the register of names. The Dentists' Register for 1919, which is also issued by the General Medical Council (3s. 4d., Constable & Co., Ltd.), contains 5,567 names an increase of forty-three on the previous year's number. Additions by registration amount to 131, which is almost on a level with the number added in 1917 (130), and considerably below the average for the last five years. The percentage of persons registered as being in bona-fide dental practice at the passing of the Dentists Act, 1878, is 22.36.

# Westminster Wisdom.

By the "C. & D." Parliamentary Representative

# THE PARLIAMENTARY SESSION.

Our Parliamentary Correspondent states that, according to present arrangements, Parliament will adjourn for the summer recess on August 12 or 14, reassembling in the third week in September.

# THE FINANCE BILL.

The Committee stage of the Finance Bill was resumed on July 8, when considerable discussion took place on the question of import duties. Clause 2, dealing with the continuation of increased medicine duties, was ordered to stand part of the Bill, and also Clause 3, which relates to the increase in spirit duties.

# NATIONAL HEALTH INSURANCE BILL.

The second reading took place on July 3 of the National Health Insurance Bill. The object of the Bill is to raise the income limit of non-manual workers compulsorily insured from 160l. to 250l., and has been rendered necessary by the altered value of money brought about by the war. Unless the Bill is passed very nearly a million persons would cease to be insured as from June 30.

### THE PEACE TREATY.

The following two Bills were introduced by the Prime Minister in the House of Commons on July 3:

A Bill to make such appointments, establish such offices, make such Orders in Council and do such things as appear to him to be necessary for carrying out the said Treaty, and for giving effect to any of the provisions of the said Treaty.

Anglo-French Treaty (Defence of France) Bill, for approving a Treaty between His Majesty and President of the French Republic.

### LEARNED SOCIETIES' INCOME-TAX.

Mr. Marriott, on July 2, asked the Chancellor of the Exchequer whether his attention has been called to the position of learned societies, registered under the 23rd Section of the Companies Act, 1867, as associations limited by guarantee, as regards assessment to income-tax; and whether he will introduce legislation to place them, as regards exemption from income-tax, in the same position as societies registered under the Industrial and Provident Societies Act, 1893.

Mr. Chamberlain, in reply, referred the member to the exemption contained in Section 37 of the Income-tax Act, 1918, in favour of charitable societies, which include societies for the promotion of science or other branches of learning.

# LINSEED OIL.

Captain Brown, on July 8, asked the President of the Board of Trade if his attention has been called to the allegation that, while Belgium is short of linseed oil and is paying 120l. per ton for this article, the British Government is selling the same article to Germany at 75l. per ton, thus giving preferential treatment to our enemy; and will he make any statement on the subject.

Mr. McCurdy said: I have been asked to reply. In accordance with arrangements made at the Brussels Conference, 25,000 tons of linseed oil were sold to Germany at 78l. per ton. When this price was fixed linseed oil could be purchased in the United Kingdom at 58l. per ton, and Belgium had declined to purchase any part of the British surplus.

# SALVARSAN FATALITIES.

Mr. Waterson, on July 4, asked the Minister of Health whether his Department is taking any action in regard to the recent death of a girl in St. George's Hospital while undergoing treatment for congenital syphilis; what drug was used in this case and whether it had received the approval of his Department; whether he proposes to continue to approve of the use of such drugs; whether it is a fact, as stated by a medical witness at the inquest, that there had been a crop of such cases at Cambridge and Dublin during the war; how many deaths of this descriptor.

tion have occurred in England and Wales since the beginning of the war; and whether he will make arrangements for the immediate report to his Department of all such deaths, both among soldiers and ex-soldiers and in the general population, in order that careful records may be available for reference.

Major Astor replied: The answer to the first part of the question is in the affirmative. The case referred to is under inquiry by the Special Committee appointed by the Mcdical Research Committee to investigate the results of the treatment of syphilis by salvarsan and its substitutes. I understand that the drug used in this case was novarsenobillon, which is one of the drugs approved by my Department for the treatment of syphilis and tested under arrangements made by the Medical Research Committee. I am not aware of any sufficient reason for discontinuing the approval of the use of this and similar drugs. In this connection I may add that I understand the coroner's finding at the inquest on this case was that this drug was properly administered and in proper amount. I understand that there have been several fatal cases following, though not necessarily caused by, the administration of these drugs in military hospitals at Cambridge and Dublin during the war, and these cases, also, are under investiga-tion by the Special Committee. No precise information is at present available as to the number of deaths of this description which have occurred in England and Wales since the beginning of the war, but the total number is, of course, very small, especially in proportion to the very large number of injections of such drugs taking place daily. The suggestion in the last part of the question will be considered with the report of the Special Committee when it is received. Already my Department has been considering the desirability of requiring special reports direct to the Ministry of all exceptional results following the administration of these drugs.

# Summer Outings.

# A Victory Outing.

The annual outings of Cuxson, Gerrard & Co., Ltd., Oldbury, were resumed on June 28, when over 200 employés travelled by special cars from Kidderminster to Stourport. Luncheon was provided by the directors at Bewdley, and, after the loyal toast, Messrs. Cuxson, senr., and Gerrard welcomed their staff. Subsequently a cricket match was held, Representatives v. Works, resulting in a win for the latter. Other games were indulged in after tea and, thanks to the weather and arrangements, the "Victory Outing" was voted a great success.

# Birmingham Association's Motor Drive.

The summer excursion of the Birmingham Pharmaceutical Association was held on July 2, eighty-three members and friends taking part. The party proceeded in motorbuses to Leamington, making stops at Kenilwerth, Guy's Cliff, and at the Warwick Arms and Crown Hotels, where tea was provided. At Leamington the pump-room was inspected, and subsequently a visit was paid to the Jephson Gardens, where a concert was in progress. The return journey was started at 9 r.m. A welcome to Warwick and Leamington was accorded by several of the local pharmacists. It was the first summer outing that the Association had been able to arrange for several years, and was highly successful.

# Bradford Breaks the Record.

The annual half-day outing arranged by the Bradford Pharmacists' Association took place on July 2, and was on a more ambitious scale than hitherto. A party of ninety-seven, the biggest on record in the Association's outings, proceeded in four chars-à-bancs to Harrogate, Ripon, Studley Royal, and Fountains Abbey. A couple of hours was spent amid the beautiful scenery, followed by a short drive back to the cathedral city for tea. The excursionists reached Bradford about 10 p.M., unanimous in the opinion that future trips ought to occupy the full day. The President (Mr. W. Sutcliffe), the Hon. Secretary (Mr. A. T. Bailes), and a Sub-Committee were responsible for the arrangements.

# Association Affairs.

Huddersfield,—At the meeting of the Huddersfield Chemists' Association on July 3, Mr. V. Shaw (President) in the chair, the question of the Association becoming a branch of the Pharmaceutical Society was considered. The feeling was that more information was required, but it was evident that the members were indisposed to lose their freedom of action as an organised body. Mr. R. C. Walshaw was nominated to stand for election to the Local Associations Executive Committee. A letter from the Proprietary Articles Trade Association was read, referring, in eulogistic terms, to the work of Sir William Glyn-Jones during the past thirty years, and drawing attention to the proposed testimonial. Several members present handed in donations for the fund. The President gave a report of the statutory meeting held in London on July 2.

Kent.-A meeting of the County of Kent Association of Pharmacists was held on July 2, the President, Mr. A. E. Hobbs in the chair. With regard to the Association reorganisation scheme, it was decided that the scheme should be immediately proceeded with, and where it is impossible to hold meetings, nominations, after consultation with the various pharmacists concerned, should be made by the President. The question of the supply of Glaxo to members of Mothers' Care Institutions was again before the meeting, and it was decided to await further information. The sum of 306l. 1s. 6d. has been paid to the Pharmaceutical Society as a contribution from Kent to the War Auxiliary Benevolent Fund. It was unanimously decided to invite Mr. J. Harcombe Cuff to stand as one of the candidates for the southern area. The Association decided also to nominate Mr. J. E. French Hon. Secretary. The following Sub-Committee of pharmacist proprietors was appointed: President, Mr. A. E. Hobbs, J.P.; Vice-Presidents, Messrs. F. J. Oliver, J.P., J. H. Cuff, and C. J. Taylor; Treasurer, Mr. A. F. Corfe; Hon. Secretary, Mr. J. E. French. These officers will act as an executive committee until better information on the industrial council is to hand. A decision on the question of local pharmaceutical associations becoming branches of the Pharmaceutical Society was deferred. Mr. Clarke (Tonbridge) introduced the question of a boycott of unprofitable proprietary articles, and stated that the Halifax Association had carefully considered the matter. It was decided that the Secretary should approach the Halifax Association in this matter.

Association has appointed the following officers for the forthcoming session: President, Mr. H. S. Watson. Vice-President, Mr. Edmund White. Treasurer, Mr. H. R. Procter. Hon. Secretary, Mr. B. R. Wilkinson, Assistant-Secretary, Mr. Harry Marten. Social Secretary, Mr. W. Browne. Trade Secretary, Mr. P. S. Windwood. Auditors, Messrs. J. P. Ellerington and J. Widgery.

Manchester. A meeting of the Manchester Pharmacentical Association was held on July 2, Mr. A. Hershberg (President) in the chair. The President explained that at the Council-meeting of the Association held that afternoon it was proposed that Mr. J. H. Nidd be nominated as the Panel candidate for the Local Associations Executive, and that the nomination of the other two candidates for the Local Associations Executive Committee be deferred until the Federation meeting, which was to be held at Preston the following day. The recommendation of the Council was passed unanimously. Regarding the proposal that local associations be branches of the Pharmaceutical Society, the President said chemists who were not members had no right to complain. Mr. W. Kirkby, M.Sc., was opposed to the proposal. Mr. F. W. Bates, J.P., spoke in favour of the proposal, and said it really was his scheme of two or three years ago, but they would not have it then. He hoped that under this new scheme their hon, secretaries would become paid servants. The Industrial Trades Council was discussed with animation, Messrs. Kirkby, Simmons, Bates, Haines, and others taking part. The

President said as the members had not been circularised or informed of this matter, he would ask for an adjournment.

Nottinghamshire.—The Nottinghamshire Pharmacists' Association held the annual meeting at Mansfield on June 25. The following officers were elected: President, Mr. R. E. Naylor (Jacksdale); Vice-President, Mr. H. Twidale (Mansfield); Treasurer, Mr. B. Adams; and Hon. Secretary, Mr. A. H. Bell. The sum of 5½, 5s. was subscribed to the Benevolent Fund. It was decided that Mr. Pegg (Chairman of the Pharmaceutical Committee) and Mr. Bell (Secretary of the Association) meet the Nottingham Pharmaceutical Association with regard to the question of Local Associations Executive Committee candidates.

Warwickshire.—The Warwickshire Pharmaceutical Association met at Leamington on July 3, Mr. Hutton (President) in the chair. It was decided to nominate the Secretary (Mr. C. Davis, Leamington) as a candidate for the coming Local Associations Executive Committee election. Membership of the Association is in future to be limited to employers. It was considered undesirable that the Association should become a branch of the Pharmaceutical Society. At the same time compulsory membership of the Society for every pharmacist would be heartly supported by the Association. The New Warwickshire Formulary was discussed, and it was decided to protest against its introduction at such short notice, and request a postponement of its adoption. Members expressed their strong disapproval of many formulas.

Women Pharmacists.— The first meeting of the Council of the National Association of Women Pharmacists was held at 17 Bloomsbury Square, London, on July 2, the President (Miss Buchanan) in the chair. The Executive Committee and officers for the year were elected: President, Miss Buchanan; Vice-Presidents, Mrs. Clarke Keer and Miss Renouf; Acting Vice-Presidents, Mrs. Freke, Mrs. Irvine, Miss Hughes, and Miss Wardle (Manchester); Secretary, Miss Braithwaite; Treasurer, Miss Robertson; Other Executive Members, Mrs. Patterson, Misses Andrews, Boag (Edinburgh), Edmond, Fordyce, Gilliatt, Sharples, and Sproule. The annual business meeting was held subsequently, at which the treasurer's and secretary's reports were adopted. The President then gave a short address on Government by Majority, its Advantages and Pit-falls.

# Japanese Chiretta.

UNDER this name a new substitute for Indian chiretta was offered at a recent drug sale in London. It is used in Japan in medicine as a bitter tonic, and was described in a list of Japanese drugs received from Japan by the late Mr. Thos. Christy in 1879. In Japan it is known as Toyaku or Semburi. The plant is about a foot high and bears some resemblance in foliage to our Erythræa Centaurium, with flowers somewhat like those of our Chlora perfoliata, but having pinkish-white flowers striped with purple. The plant is interesting botanically on account of the stigma being prolonged downwards over by Grisebach, Pleurogyne rotata. The corolla also has at its base little glands terminating as hairs. Grisebach's name is adopted in Franchet and Savatier's "Flore du Japon," but Matsumura in his "Index Plantarum Japonicarum" (p. 503) places it under Swertia Chinensis, Franchet, and gives as synonyms Pleurogyne rotata, F. S., and Ophelia diluta, Ledebour, and includes two forms of the plant, viz. f. vulgare, Mak., and f. violacea, Mak. It is widely spread in Japan, occurring near Nikko, Tokio, Mitsuminesan, Simura, Yohosha. Tahasimura, Kawatsi, and Suoo. The genus Swertia is well represented in Japan, as there are eleven other Japanese species. It has been submitted to an analyst in this country, and is reported to be more bitter than the Indian chiretta, though there is not, so far as the writer is aware, any published standard of bitterness for comparison. So far as pharmacy is concerned the short stature of the plant and the larger prominent flowers will serve to distinguish it easily from the Indian Swertia Chiretta.

# Insurance Act Dispensing.

ARecord of matters concerning Chemists' interests in the National Health Insurance Acts.

# Inquiries about Panel Practitioners.

With regard to the inquiry as to the continuance of Dr. A. W. Cadman, 2 Linden Gardens, Notting Hill Gate, London, W., on the panel (*U. & D.*, June 7, p. 52). the Insurance Commissioners announce that they have decided not to remove the doctor's name from the medical They consider, however, that Dr. Cadman was guilty of grave irregularities, and the case was one which Eully justified an inquiry. In the circumstances they propose to adopt the recommendation made by the Inquiry Committee, and to direct that the doctor shall pay the Committee's costs.—The result of an inquiry, arising from representations made by the National Amalgamated Approved Society, with regard to the continuance of Drs. Porterfield and McCausland, 101 Albert Road, Widnes, upon the panel, has also been announced. In view of the terms of the report, the Commissioners have decided to take no action in the matter, but they observe that while the heavy pressure of medical work, due to the prevailing epidemic, explained, and, to some extent, justified, the doctors' departure from a strict adherence to the medical certification rules, neither practitioner had taken the trouble to make himself acquainted with the actual provisions of the rules or with the system on which these are based. The Commissioners are not prepared to accept, from an insurance practitioner, the plea that he is ignorant of the elementary principles of the scheme under which he is working. At the same time the Commissioners suggest that there appears to have been a lack of co-operation between the officials of the Society and the doctors, for which the former cannot be held wholly free. The practitioners are to bear a share of the costs to the extent of 201, each.

# Reports from Local Centres.

Blackpool.—The following statistics dealing with insurance dispensing are now available:

	Quarter ended	Quarter ended
	March 31, 1919	March 31, 1918
Prescriptions dispensed	14.211	11 439
Average price of ingredient	ts 4.26d.	4.01d.
Average dispensing fee	$3.89d$ .	3.42d.

Three names have been added to the list of persons supplying drugs and appliances.

Sheffield.—According to the North-East Midland Prescription Bureau report, the number of prescriptions dealt with during the year 1918 was 1,979,545, at a cost of 56,959\(ldots\) 14s. 11d. This was in excess of the number and amount estimated for, the increase being attributable to the influenza epidemics. The cost of the Bureau was 19s. 11\(\frac{1}{2}\)d. per 1,000 prescriptions. For 1919 the total number of prescriptions is estimated at 1,898,000, and the cost of checking 1l. 1s. 7d. per 1,000.—For the year 1917, the amount paid to medical practitioners was 57,576l. 16s. 6d. The panel service fund received, from the Insurance Commissioners, the sum of 66,594l. for 1917. Payments to chemists for June, 1919, were 939l. 19s. 1d.

### SCOTLAMD.

Each panel chemist received from the National Health Insurance Commission a letter stating that the functions of the National Health Insurance Commission (Scotland) would be transferred to the new Scottish Board of Health on July 1. The Commission express their appreciation of the services of Scottish panel chemists in providing an efficient service. The Commission also record their opinion that the chemists have most creditably borne their share of the burdens of the war, both in supplying men for the armed forces and in maintaining a civilian pharmaceutical service under difficult conditions.

### June Drug Tariff,

The following are the new Scottish Tariff prices for

Name.	oz.	dr.	Name.	oz.	dr .
	s. d.	s, d.	01	s. d.	s, d.
Acetanilid	0 7	0 1		1 101	
Acid. acetylsal	1 1	0 2	", encalypt.	0 5	0 1
"benzoic	1 3	$0   2\frac{1}{2}$	,, lini	0 11	
" sulph. arom.	0 7	0 1	" menth. pip.	7 4	
,, tannic	1 81	0 3	" ricini	0 2	0 07
, tartarie	0 41/2	0 1	,, terebinth.	0 $1\frac{1}{2}$	
Adeps benz	0 4	0 1	Paraldehyd.	0 112	
Argent. nit	_	$0 \ 10\frac{1}{2}$	Pheuacetin.	2 . 0	0 3½
", " indur.	_	0 11	Phenazon.	6 8	0 11⅓
,, ,, mit	-	0 81	Phenolphthalin.	4 0	0 7
Atrop. sulph		28 0	Podoph. resin.	4 0	0 7
Bals. peru	$2   8\frac{1}{2}$	0 5	Pot. permang.	0 10	0 11
Betaeain. hyd		<b>1</b> 3 4	Pot. tart. acid.	0 4	0 1
Camphora	1 3	0 21	Resorein	3 3	0 6
Chlorof. camph	1 61	0 3	Rhei, pulv.	0 8	0 11
Coeain, hyd		9 10	Salol	0 10	0 1
Codema		8 10%	Sod. benz.	1 3	0 2
" phosph		$7  11\frac{3}{3}$	Sp. am. arom.	0 51	
Collod. ves	2 10	0 5	Sulphonal	14 0	2 0
Creosot. carb	7 11%	1 2	Syr. aurant.	0 3	0 01
Emuls, morrh, c.	~		,, chloral	0 4	0 1
. hypo	0 4	0 1	" sennæ	0 31	10 0
Ergotin, '98	14 0	2 0	Theob, et sod, sal		0 7
Ext. ergot		2 0	Thymol	4 11	0 81
,, ,, liq	1 8	0 3	Tinet. aconit.	0 63	0 1
., vibur, liq	1 7	0 3 -	" benz. co.	0 9	0 14
Guaiacol carb	5 111	0 101	" canthar.	0 81	
Homatropine hydro-		0 402	,, chlor. et mo		
brom	2s. g	rain	,, cinch. co.		
Hydr. ox. flav	1 2	0 2		0 8	
" perehlor	īīī	0 2	,, lobelia ath		
" subchlor	1 15	0 2	,, nuc. vomic		0 1
" ammon	1 2	0 2 0 2	,,	0 43	
,, e. cret	0 6	0 1	**	(14 17	oz. Sub-
Lin. aconit. meth.	0 4	0 1	Troch. acid. tann	10. light n	nonthly
" camph	0 5	0 1	" pot. ehlor.	revis	
O 100 100 c 40	0 0	0 1	Ung. gall. c. op.	1 5	
,, ,, ammon.	0 41	0 1	1	0 61	
-1-1-w-6	0 9	0 11		0 5	
ough on	1 9	0 3	77 77	0 71	
Liq. picis carb	0 8	0 11			0 01
Lith. cit	1 10%	0 3	,, staphisag.	0.5	0 1
Malourea	7 41	1 1	Vin. colchiei	0 81	0 11
3.5 (1 )	3 5	0 6			
Ol. eaiuput	1 2	0 2	Oiledsilk. yellow, b		
Or. cajapate		0 2	width, $1\frac{1}{2}d$ . per 2	24 sq. in.,48	. 4d. yd.

# Business Changes.

Mr. R. A. Sharp, Ph.C., formerly of South Wigston, has purchased the business of Mr. J. J. Clayton, chemist and druggist, Ellesmere, Salop.

Mr. F. H. Gordelier, chemist and druggist, Kensington Park Road, London, W. 11, has removed to adjoining and more convenient premises.

Mr. Eric S. Perkins, chemist and druggist, has purchased the business of Mr. C. D. Brighouse, 330 Beverley Road, Hull, who is retiring on account of ill-health.

Watts, Marsden & Co. (W. H. Watts and G. H. Marsden) have commenced business as chemical and drug merchants at 3 Hayden Street, Minories, London, E. 1.

MISS MURIEL BOLTON, chemist and druggist, has purchased the business of Mr. T. W. Cockrill, chemist and druggist, 100 Porter Street, Hull, who is retiring because of ill-health.

Mr. A. I. Lardner has purchased the business of A. C. Hancock, Ltd., 82, 82A, and 84 Tower Bridge Road, London, S.E. 1, of which he has been manager for the past seven years.

SQUIRE & Co., chemists, Birmingham, have acquired the business of Pemberton & Malcolm, High Road, Willesden, London, N.W. 10, and will continue to trade under the old style and title.

MORTON'S CASH CHEMISTS, LTD., Portobello Road, London, W. 11, have acquired the business of Mr. J. H. A. Tasker, 146 Wandsworth Bridge Road, London, S.W. 6, who is leaving the drug-trade for dentistry.

SALVARSAN.—There is no shortage of salvarsan in Germany, according to a statement issued by the Hoochst Dye Works. The management denies that the plant has been taken over by the French Army. The output of the works for the present goes to the Allies. If there is a surplus it is distributed in the occupied territory. Two French chemists are observing the workings of the plant.

# Organising the Drug-trade.

# Drug Union Meetings.

THE COVENTRY BRANCH of the Amalgamated Society of THE COVENTRY BRANCH of the Amalgamated Society of Drug and Chemical Workers held a special meeting, recently, when an organiser of the Society (Mr. A. J. Gillian) gave an address. The President of the Branch (Mr. G. H. Lusty) occupied the chair, and Mr. Gillian spoke of the cordial relations existing between the employers and their staffs. He dealt also with the question of efficient organisation. Representatives of four other Societies, along with their own had held a conference Societies, along with their own, had held a conference with the Drug and Fine Chemical Manufacturers' Association, at which rates of wages were agreed upon. The schedule ranged from 50s. to 55s. per week for men, and from 35s. 6d. to 40s. for women, according to the classification of the worker. Juvenile workers were also included, and a working week of forty-eight hours was decided upon. The schedule was operative in forty-three business houses. If employes are getting these rates they must organise to protect them; if not, they must organise to get them. In organised houses matters that would otherwise be overlooked were righted. The firms are always willing to meet representatives of the Society, which has no other interest than the progress of the workers in the drug-trade. Mr. Gillian also pointed out that foremen would do well to consider joining the Society, as it helps to keep them in touch with the staffs. There was a brisk application for membership forms at the close of the meeting.

Bradford Assistants, constituting the local branch of the Amalgamated Society of Pharmacists, Drug and Chemical Workers, have appointed the following officebearers, subject to alteration in the course of the year: Chairman, Mr. G. H. Etchells; Secretary, Mr. C. E. Britton; Treasurer, Mr. J. Stanley; Committee: Misses P. Drake, W. Usher, and C. Taylor, and Messrs. J. Finan, W. Sutcliffe, R. Green, and S. Bolton. The membership of the branch is now twenty-eight, but a much larger number is expected to join.

# N.A.C.A. Meetings.

As a result of two meetings at Leeds Chemists' Assistants' Association has been formed. The following officers were elected: President, Mr. J. Pendlebury. Vice-President, Mr. T. Atkinson. Treasurer, Mr. F. W. Hollingworth. Hon. Secretary, Mr. J. Chambers. Committee (two qualified assistants, two unqualified, and one apprentice), Messrs. Wordsworth, Clark, Yarwood, Barton. and Lancaster. It was decided to become affiliated to the National Association of Chemists' Assistants. The subscription includes that due to the National Association, and is as follows: Qualified assistants, 15s. 6d.; unqualified assistants, 10s.; and apprentices, 6s. The Committee is preparing a programme for the Winter Session. Those who have not, so far, received any notices of meetings are requested to write to Mr. J. Chambers, 13 Grange Avenue, Leeds.

A meeting of about fifty assistants and apprentices, including several ladies, was held at Derby on July 8 to hear an address by Mr. Fullerton (hon. secretary). wards it was resolved to form a branch, and the following officers were elected: President, Mr. J. Cook; Vice-President, Mr. G. C. Gaskin; Treasurer, Mr. T. S. Green; Secretary, Mr. W. Bates. A committee of seven was also

A meeting of assistants and apprentices took place at Newcastle-on-Tyne on July 3, the speaker being again Mr. D. N. Fullerton. After a discussion it was agreed to form a local branch of the above association. The following officers were elected: President, Mr. W. Hunter; Vice-President, Mr. J. Elder; Secretary, Mr. N. Elder; Treasurer, Mr. A. Walker; Committee, Miss Malcolm, Messrs. Reeves, Burns, Harding, Sutcliffe,

# Vigorous Meeting at Sheffield.

A WELL-ATTENDED MEETING of the Pharmacists and Assistants' Section of the National and General Workers Union (Sheffield Branch) was held at the Wentworth Café, Sheffield, on July 2. Addresses were delivered by Mr. Beardsworth and Mr. Wm. Jones, organisers of the National Warehouse and General Workers' Union. The latter gave a full account of the aims of the union, and made strong claims why chemists should join. He thought no division of the retail and wholesale should be made on the employés' side, as the employers, in the retail and wholesale, will stand together on the Whitley Council. His society has a membership of 80,000, and it was they who secured the exemption of chemists from the trades board. When the interview took place with the Government department, he, on behalf of his union, objected to the inclusion of chemists under the trade boards scheme, adding that Sir William Glyn-Jones supported him. His union is affiliated to the "Triple Alliance," who would bring great pressure to bear if at any time a strike became necessary. Of the twelve seats on the Whitley Council nine would be secured by this union, and of these two to three would be for chemists' representatives. They would not sit upon the Council with any member from the Manchester organisation, which he described as the "Goose Club," as they were not trade unionists. The following recommendations were discussed:

(1) A fixed minimum salary for qualified assistants 7l. per week; unqualified assistants 5l. per week.
(2) A 48-hour week, including mealtimes.
(3) That pharmacy must be represented on a National Industrial Council, and not a Trades Board.

(4) The abolition of all radius agreements.

(4) The abolition of all radius agreements.
(5) That the entry into pharmaey, as a calling, be by apprenticeship. Other means of dilution are against the interests of all unqualified assistants who have made pharmacy their career. An unqualified assistant to be defined as one who has served an apprenticeship under a pharmacist.
(6) To demand direct representation on the Pharmaceutical Council and all the Pharmaceutical Committees to have some voice where trade interests are concerned.
(7) To demand a stricter supervision of the Pharmacy Acts, and to prevent eneroachment by any person from using the title of pharmacist except those who have undergone the examination of the Pharmaceutical Society.
(8) To demand that all dispensing under the Ministry of

(8) To demand that all dispensing under the Ministry of Health Bill shall be earried out under the direct supervision of a pharmacist, and that all craft interests be safeguarded.

# Pharmaceutical Society of Great Britain.

# Examination in Edinburgh.

We have received from the Registrar the following list of persons who were granted Minor certificates at the recent examinations held in Edinburgh:

Aitken, A. M., Paisley Alexander, Ann, Burntisland Barclay, Mary C. C., Ayr Brown, A. P., Wishaw Burnett, A. I., Macduff, N.B. Clark, Annie W., Lochgelly Cleghorn, C. B. M., Alyth Craig, J., Aberdeen Crcrar, Kate G., Glasgow Dalziel, Jane F., Carlisle Donald, J. G., Paisley Drummond, M. H., Pittenweem Glaholm, A. T. D., Wallsend-on-Tyne Graham, R. B., Dumfries Higgie, H. M., Richmond, Yorks Yorks Hothersall, W. C., Black-

Laing, Marjory L., Aberdeen Lauder, Annic M. C., Glas-McCall, D., Dundee McConnachie, J. H., Aber-Macintosh, Catherine, Row, Helensburgh Mackenzie, Catherine G., Maoduff, N.B. Marshall, J., Grangemouth Michie, J. C., Aberdeen Monro, Josephine C., Edinburgh Morpeth, R. S., Edinburgh Roddis, C. D., Glasgow Ross, D., Ullapool, Ross-shire Stevenson, B., jr., Greenock Teesdale, J. W., - Spittal, Berwick Wood, A. M., Stonehaven Wyse, D., Glenfarg, Perth-Joaillet, Aimé, Durban, S.A. Johnston, J. C., Aberdeen

# The Economic Resources of Burma.

11.-Cutch (continued).

Now that hostilities have come to an end (writes a Rangoon correspondent) it is to be hoped that steps will be taken by the Government of India to strengthen the Forest De partment of what may be truly described as the neglected province of Burma. If the hopeless inadequacy of the gazetted staff of the Department is not remedied at an early date, not only will the capital value of the Government forests be seriously encroached on, but as one officer pointed out in last year's report, the Government, by facilitating the commission of crime, may be said to be breeding criminals. The cutch trade in Burma, which is so important for the tanning industry, is suffering yearly in an increased degree from this policy, which keeps the dependable portion of the Government Forest Department so miserably under-staffed. It has been estimated that not 10 per cent. of the cases of illicit cutting down of trees and cutch boiling which occur are ever brought to light. Something like 10,000 cutch trees were cut down and removed from one reserved forest alone last year. Besides these, between two and three thousand valuable reserved timber trees were cut down during the last four years from the other reserved forests. The increase of population and space of cultivation, with the concomitant destruction of accessible forests in other parts of the province, is said to be driving the agricultural repulation on the Corporate research. population on to Government reserved forests, and the estapopulation on to Government reserved forests, and the establishment is too undermanned to supply their requirements in a legitimate way, or to prevent them from stealing on a largo and systematic scale. The Burman is so improvident also that to obtain honey, beeswax, or orchids he will fell valuable trees and leave them to rot in the forests, thus practically exemplifying the old story of killing the goose to get tically exemplifying the old story of killing the goose to get the eggs. It is not surprising, when the progress made in the Federated Malay States is taken into consideration, people in Burma are beginning to think they would do better as a Crown Colony rather than as an appendage to India, with which they have little in common. In the matter of roads and communications and forest-conservancy matter of roads and communications and forest-conservancy there can hardly be a comparison between the two countries. Before the days of Lord Curzon's Viœroyalty, when our policy with reference to Russia and the Central Powers was just the opposite to what it has been since 1914, most of Burma's revenue, instead of being spent on the province itself, went to provide strategical railways on India's northwest frontier to provide against a danger which has never arisen, a popular bugbear which occupied the minds of British statesmen of both parties for something like eighty years. Thousands of lives and millions of treasure were spent, as it has turned out for very little purpose. Whatever may be said against Lord Curzon's policy as Viceroy, he at any rate took a statesmanlike view of Indian frontier politics, and may be said to have been the first of Indian Viceroys to put an end to the costly frontier wars which occurred every second or third year on the Indian frontiers for nearly two generations. But Burma, which shared in the cost of most of these unnecessary petty wars, seems to have gained very little by their abolition. Her forests cover a larger number of square miles than the Japaneso Empire with its 50,000,000 of population, or than Austria had before she entered the war in 1914. It seems a foolish reliev to undergon the Department responsible for their policy to underman the Department responsible for their efficient administration, for it would not only pay the cost of any necessary establishment, but would yield a revenue tenfold more than is extracted from them to-day, whilst benefiting every trade and industry now carried on whilst benefiting every trade and industry now carried on in the province, and possibly opening out many new ones. The exports of cutch from Burma to foreign countries during 1917-13 fell by 30 per cent. in quantity and in value from 10.12 lakhs to 6.44 lakhs. The United Kingdom took most, while shipments to the United States were greater than in former years, and France took none. Exports to India fell from 7.68 lakhs to 6.93 lakhs, whilo the shipments to Hong Kong and Ceylon were smaller than those of the previous year. Further figures regarding exports give the following results:

1911-12 1912-13 1913-14 1914-15 1915-16 Tons ... 5,365 4,557 3,990 4,348

Cutch is used extensively for tanning and dycing in Burma, and is found to be a most valuable preservative for cordage. It counteracts the action of salt water, and fishing-nets in Burma are usually steeped in a strong solution of it before being used. The trade is a valuable one, likely to develop largely in the near future. The tree pro-

ducing cutch brings in a considerable revenue to the Forest ducing cutch brings in a considerable revenue to the Forest Department in Burma, but it has been so undermanned during the war that, as stated above, thousands of trees are cut down and destroyed without the Department being able to prevent it. It is to be hoped that now that hostilities have crased Government will take steps to increase the number of Forest Department gazetted officers. The cost of such establishment would be largely met by the revenue which would be obtained from the cutch trade, while the forests would be preserved and looked after instead of being slowly destroyed as they are at present in many places far from headquarters, and where there is no trustworthy establishment to supervise their working.

# A Centenary Celebration.

When a firm has been established for a century, a year or so is a matter of small account. Thus it came about that the centenary of the firm of James F. Wilkinson, label and general printers, Bury Street, Pendleton, Manchester, which fell in 1917, was celebrated a few days ago with the same éclat as if postponement through the exigencies of the war had not been necessary. The business was commenced in 1817 by Mr. Thomas Wilkinson, who resided in Ridgefield, and had premises in Queen Street. He was then about twenty-four years old, but he must have had confidence in himself, for a year after. wards he published the first number of a newspaper known as the "Spectator." In 1845 Mr. James F. Wilkinson was apprenticed to his father. In 1847 the business was transferred to Esdaile's Buildings, Oxford Street, and in 1853 to Lloyd Street. Mr. Thomas Wilkinson died in 1856 at the age of sixty-three, and was succeeded by his son, Mr. W. H. Wilkinson, and the business was again removed to Oxford Street. Up to 1851 Mr. Thomas Wilkinson was a general printer, producing among other work the play-bills for the Theatre Royal; but about that year he began to establish a medical-label section. It was always one of Mr. James F. Wilkinson's ambitions to always one of Mr. James F. Wilkinson's ambitious to own or print a newspaper, and in 1861 he published the "Dawn." Subsequently the "Shadow" was printed at Pendleton, and also the "Recipient." During the Franco-Prussian War of 1870-71 an evening daily was printed called the "Northern Times." After Mr. Thomas Wilkinson's death, Mr. W. H. Wilkinson took up the business for a time, and later went to Australia. Then Mr. James amalgamated the two offices, and finding it necessary to secure larger premises, built in 1866 the works at Pendleton, and called it the "Gutenberg Works" out of compliment to one of the founders of the art of printing. In 1876 the building was considerably added to, and the number of employes was increased to over a hundred. The lithographic section, which had been a subordinate department, began to develop, and there was a great increase in the volume of trade. All this had not been done without thought and effort, and these were the leading points in Mr. Wilkinson's character. From early morning until late at night-nine o'clock was a favourite closing hour-he was in the works advising and super vising, a task he courageously performed until within a fortnight of his death on February 2, 1912. Father and son had owned the business continuously for ninety-five years. The present partners are Mr. G. F. Berry and Mr. J. G. Driver. The centerary celebration took the form of a day's outing to Southport, where, after a dinner and a tea had been duly enjoyed, appropriate speeches were made by Mr. Bowman (manager) and other members of the staff. Among the guests were retired employes whose terms of service date back, in some cases, for considerably more than a generation—the best of all testimonies to the traditions of the firm.

METRIC SYSTEM IN THE UNITED STATES .- A report from Washington intimates that there is a strong prospect that the metric system will be adopted by the United States for general commercial use.

ENCOURAGING!—Pharmacy teacher, perorating: "Well, ladies and gentlemen, we've gone thoroughly over all the work, but I'm just as pleased that I have not to go up for the examination myself!"

# Trade Report.

# 42 Cannon Street, E.C. 4, July 10, 3 p.m.

A FALLING-OFF in the amount of business done has to be noted this week, and little of interest has transpired. Speculative activity in Mincing Lane has temporarily subsided in products like shellae, camphor, menthol, Japanese mint oil, and they are all a shade weaker. After the drugauction last week a larger quantity of goods than usual changed hands, this applying to Sumatra benzoin, cardamoms, sarsaparilla, and ipeeacuanha; all the fine dragon'sblood has been sold, and rhubarb is still non-existent in first-hands. Senega is unchanged, and cascara sagrada is quiet. The chief interest in the fine chemical market still centres in the Proclamation prohibiting the importation of "chemicals of a high degree of purity" except under licence, and business remains practically suspended thereby, pending a definite pronouncement on the subject by the Board of Trade. Nobody knows what is going to happen, but it seems to portend some peculiar changes in the chemical trade, and it is even suggested that it is an attempt on the part of the Government to eliminate the middleman. Plenty of opportunity for criticism will therefore arise later, when the intention of the authorities is clearer. Meanwhile business is unsettled, and the feeling all round in fine chemicals is quiet. Spot holders are, of course, taking advantage of the situation to ask more moncy, as some of them will be unable to obtain licences for further supplies. The rise in earbolic acid is reflected in an advance in salicylates, the makers of which appear to be acting together. Aspirin is also dearer. Phenazone is held for an advance in view of the holding up of imports, and much trouble is being given to importers of fine chemicals which are now on the way unless they can prove that they were shipped before June 25. Mercurials follow the advance in meroury announced last week. Other changes include a rise in elove oil; lemon oil is also firmer in several quarters. Star-anise and eucalyptus oils are easier. Glucose is dearer.

Higher	Firmer	Easier
Camphor (Eng. flowers) Carbolic acid Clove oil Cloves Coconut oil Glucose Hen-yolk Mercurials Orange oil balicytic acid Soda salicylate Vanillin	Albumen Aspirin Gum acacia (Sudan) Phenazone Wax, veget. (Jp.)	Anise oil, star Camphor (1p. slabs) Eucalyptus oil shellac

ACETANILIDE is in little demand, and the price is unaltered at 2s. per lb. in quantity.

AGAR-AGAR is steady, with spot sales of No. 1 Kobe strip at from 2s. 11d. to 3s., and Yokohama seconds at 2s. 7d. per lb. The exports from Japan during April amounted to 236,351 kin, valued at 306,928 yen. During the four months ended April 30 they were as follows:

*			
	1917	1918	1919
$\mathbf{Te}$	Kin	Kin	* Kin
China	431,555	131,062	174,886
Hong-Kong	189,278	110 264	197,699
Straits Settlements	37,679	29,625	49,290
Dutch Indies	69,529	98,349	127,136
Asiatic Russia	434	62	440
Great Britain	38,472	876,942	33,010
France	11,000		<u></u>
United States	103,989	37,712	43,400
Other Countries	102,519	71,555	73,063
Kin	987,455	1,355,571	698,921
Yen	901.852	1.385.612	889 041

ALBUMEN is dearer, with spot sales of Chinese egg at from 5s. 1½d. to 5s. 2d. per lb., and July-September shipment at from-5s. 1d. to 5s. 3d. c.i.f.

Anise Oil, Star, is easier, with sellers of "Red Ship" brand at 4s. 10½d. per lb. on the spot.

Antimony is practically unchanged. French regulus has been sold at 41. 10s., but forward offers are made at 40.

c.i.f. This means competition against other descriptions.
The New York price has risen further to 8\frac{3}{4} cents for spot.

Arsenic.—The tendency is firm, supplies being light, with prices ranging from about 36\frac{1}{2}. to 38\frac{1}{2}. for white Cornish powder. There is some talk of better prices in view of the improving demand.
Aspirin.—The lowest price is now 4s. 6d. per lb. for spot

supplies, this being due to the improvement in salicylic acid and the probable limitation of imports.

Benzoic Acid is in fair demand at 4s. 6d. per lb. for spot supplies.

BENZOIN.—A good business was done in Sumatra gum after the public sale last week. The landings in London during June amounted to 957 packages, and the deliveries to 235 packages; the stock on June 30 was 2,286 packages,

against 486 packages in June 1918. CADMIUM is quiet at from 6s. 6d. to 7s. per lb., and the American price stands at \$1.40 per lb. in lots of 500 lb.

American price stands at \$1.40 per lb. in lots of 500 lb.

CALUMBA.—The landings in London during June amounted to 25 bags and the deliveries to 414 bags; the stock on June 30 was 1,573 bags, against 240 bags in June 1918. Fine pale bold washed is held at 120s., fair natural sorts at 90s., and ordinary dull dusty at 82s. 6d.

CAMPHOR (REFINED).—Japanese 2½-lb. slabs are quiet, with small sales on the spot at 13s. 6d. per lb., and for July-August shipment 12s. 7½d. per lb. c.i.f. is quoted. English flowers are dearer at 14s. 9d. The exports from Japan during April amounted to 255,732 kin, valued at 549,011 yen. During the four months ended April 30 they were as During the four months ended April 30 they were as

		1917	1918	1919
To		Kin	Kin	Kin
British India	***	158.303	202,746	4,555
Asiatic Russia		_		4,891
Great Britain		46,463	189,868	29,711
France		<u> </u>	8,845	48,813
United States		798,880	267,329	654,052
Australia		1,465	37,277	45
Other Countries		37,730	69,379	31,003
Kin	• • • •	1,042,841	775,444	773,070
Yen	•••	1,643,121	1,470,614	1,998,112

CAMPHOR OIL.—The exports from Japan during April amounted to 142,822 kin, valued at 37,119 yen. During the four months ended April 30 they were as follows:

		1917	1918	1919
Kin	 400	553,188	232,369	194,803
Yen	 •••	90,731	41,460	50,341

Carbolic Acid.—English makers appear to be acting in unison in an endeavour to bring the product to a more profitable level, and even at 6d. per lb., which is now quoted for 39° to 40° C. ice crystals, there is little profit. American makers also appear to have advanced their prices, as the rate of absorption of war-time supplies has been rapid.

Cardamons.—The almost complete abstention of buying in auction last week by the three leading exporters appears to have given rise to the suggestion that it was premeditated, to have given rise to the suggestion that it was premeditated, and that they bought privately afterwards on better terms than by competing one against the other. It is also said that they divided their purchases. A fair quantity of the offerings changed hands after the auction, chiefly Ceylon-Mysores and Aleppy. Seed has also been sold up to 38 8d. The landings in London during June amounted to 631 packages and the deliveries to 1,002 packages; the stock on June 30 was 1,155 packages, against 2,565 packages. Fair quantities have arrived this week. Fair quantities have arrived this week.

CASCARA SAGRADA is quiet, with three- to four-year-old bark offering at 110s, on the spot. The landings in London during June amounted to 25 tons and the deliveries to 5 tons; the stock on June 30 was 51 tons, against 28 tons in June 1918.

In June 1918.

CINCHONA.—At auction on Tuesday 823 packages offered, of which about 200 sold. Of East Indian 273 bales and 6 bags offered, and 122 bales and 6 bags sold, comprising good bright Succirubra chips at 2s. to 2s. 2d. and chips and dust at 1s. 6d. Fifty bales St. Thome sold at 1s. 7\frac{3}{4}d. for broken red quill and chips, 1s. 6d. for red chips, and 9\frac{1}{8}d. for dust; 183 bales Calisaya and 311 bales Java were bought

In.

CINNAMON.—At auction 172 balcs Ceylon were bought in, comprising fine firsts at 2s. 2d. to 2s. 4d., coarse seconds at 1s. 8d., and course fourths at 1s. 6d. per lb. Privately, chips have been sold freely up to 9d. per lb.

CITRIC ACID is quiet at 4s. 4d. per lb. on the spot.

CLOVE OIL.—In view of the advance in the spice, English distillers now quote 12s. 6d.—an advance of 1s. per lb.

CLOVES are dearer on the week, with fair Zanzibar offering

at 1s. 4d. per lb. on the spot and at 1s. 4d. on c.if. terms.

Coca-leaves.—An auction will be held at Amsterdam on
July 17, when 893 bales, weighing 48,160 kilos., Java leaf
will be offered under the auspicos of the N.O.T. The total alkaloids content is 682 kilos., and the average percentage

Cocculus Indicus.—A consignment of 100 bales has come to hand, the bulk of which has been sold to arrive.

COCONUT OIL is dearer, Cochin for August-October shipment offering at 96s. and Ceylon at 95s. per cwt. c.i.f. Cod-liver Oil.—The final report from all the cod-fisheries

(including that of Finmarken) gives the total output as

 Catch of cod (millions)
 ...
 1916 1917 1918 1919

 Vield of c.l.o. (hect.)
 ...
 60,100 37,100 21,500 37,600

 ,, liver for "raw" oils (hect.)
 5,400 6,800 9,900 5,200

The yield of oil is this year very favourable.

COPPER SULPHATE.—The ceaseless "boom" in the metal still leaves the position of sulphate stationary, with the Liverpool f.o.b. price for casks at 48t. per ton, the main reason for this having been already given in our previous issue. A little export business has been done for various territories in the Near East, but the general export demand remains slow. The exports from the U.K. for the six months ended June 30, 1919, amounted to 27,223 tons, against 31,273 tons in the corresponding period of 1918.

CREOSOTE CARBONATE.—Production costs appear to have

been materially reduced in America, and makers on that side recently reduced their price by \$6 to \$7, quoting \$8.25 per lb., or about half its former price. Spot holders quote

45s. per lb.

CUMIN-SEED is firm at 50s. per cwt. for fair sifted Morocco. EUCALYPTUS OIL is easier, with sales of 75 to 80 per cent. eucalyptol at 2s. 3d. per lb. on the spot.

FARINA is quiet, with sellers of No. 1 Japaneso at 50s. per cwt. on the spot, and affoat at 49s. Sweet-potato flour is firm, the spot value being 41s. per cwt.

GINGER is steady, Cochin washed offering at 85s., wormy 60s. to 62s. 6d., African 55s., Japanese 50s., common to good common Jamaica 90s. to 95s., and medium to good 100s. to 110s. per ewt.

GLUCOSE has advanced to 51s. per cwt. for water-white

American, duty paid, landed terms.

GUM ACACIA is firmer, with sales of Sudan sorts at from 70s. to 72s. 6d. per cwt. on the spot. The landings in London of all descriptions during June amounted to 10,357 packages and the deliveries to 7,013 packages; the stock on June 30 was 28,662 packages, against 22,839 packages in June 1918.

HEMP-SEED is scarce on spot, and sales of small lots have

the way, which will help to relieve the situation.

Hen-yolk is dearer, Chinese offering at 225s. on the spot, affoat at 210s. to 215s. Dried yolk is 2s. 4d. per lb. on spot. affoat at 210s. to 215s. Dried yolk is 2s. 4d. per lb. on spot. Honey.—New crop Californian for August-September shipment from New York is quoted at 23½c. for white orange, 22½c. for white sage, and 19½c. for amber sage in cases. Australian on the spot (London) continues in good supply, good pale set selling at 65s., with ordinary offering down to 57s. 6d. Finest white Californian is 92s. 6d. on the spot. IPECACUANHA.—The landings in London during June amounted to 4d bales Matto Grosso, and the deliveries to 31 bales Matto Grosso, 8 Cartagena, and 22 East Indian; the stock on June 30 was 165 packages Matto Grosso, 3 Minas, 64 East Indian, and 8 Cartagena.

64 East Indian, and 8 Cartagena.

LEMON OIL is selling on the spot at from 4s. 6d. to 4s. 9d.

per lb., as to quantity and seller.

Lime Oil is a dead letter, fair West Indian distilled offer-

LIME OIL is a dead letter, fair west indian distince onering at 3s. 9d. per lb.

LINSEED OIL.—The market has lately felt the full effect of the remarkable stringency in the seed product, which has been much aggravated by the fact that the arrangement of shipping business from the River Plate and India has become more and more difficult in consequence of the increased freight rates. Special efforts have been made to seeme accommodation to Continental ports where seed is badly needed, especially Belgium and Holland, to say nothing of the needs of Germany, which are also to be eventually considered. The frequent circularising of applications in the considered of the section of the considered of the section cations for space in that direction in order to get business arranged as soon as possible is naturally giving undue advantage to shipowners; c.i.f. costs for seed have thus risen again substantially, and the vagaries in the oil-product thus tend to multiply, while home consumers are extremely handicapped. The need for rigid control for some indefinite period seems fully justified. Exports under licences should be kept down to the smallest possible dimensions. The anxiety shown in manufacturing circles (where urgent orders

are being piled up) to proceed with the reconstruction of business is thus encountering eeascless difficulties. Forward

oil positions have again hardened up, and the spot price stands at the absolutely "record" figure of 125*l*. per ton.

Mace is steady at 1s. 7d. to 1s. 8d. per lb. for ordinary to fair Singapore and 1s. 2d. to 1s. 3d. for pickings.

Menthol is steady but quiet, with spot sales of Kobayashi-Suzuki at 29s. per lb. on the spot. The exports from Japan during April amounted to 42,223 kin, valued at 318,348 yen.

During the four months ended April 30 they were as follows:

	1917	1918	1919
$\mathbf{T}_{0}$	Kin	Kin	Kin
British India	3,319	8,249	2,534
Great Britain	15,656	49,276	11,529
France	1,361	675	225
United States	64,448	31,208	58,532
Other Countries	5,412	3,543	2,393
Kin	90,196	92,951	75,213
Yen	603,119	529,866	631,341
104	*** 000,110	020,000	001,041

MERCURIMS.—Prices of the salts have been advanced by about 8d. per lb., the makers' list quotation for ealomel being 7s. 4d., corrosive sublimate 6s. 10d., and white precipitate 7s. 11d. per lb., with the usual scale reductions.

MILK-SUGAR.—The recent arrivals of Dutch appear to be going freely into consumption, there being a good home and export demand, the spot quotation for Dutch being 185s. per cent

185s. per cwt.

MINT OIL.—Japanese dementholised is quiet but steady, with spot sellers of Kobayashi-Suzuki at 6s. 4½d. per lb. The export from Japan during April amounted to 69,136 kin, The export from Japan during April amounted to 05,250 km, valued at 172,666 yen. During the four months ended April 30 they were as follows:

1917 1918 1919

Kin ... 66,106 42,590 105,211

Yen ... 146,537 87,159 282,406

MYRRH.—The landings in London during June amounted

to 78 packages and the deliveries to 59 packages; the stock on June 30 was 302 packages, against 253 in June 1918.

NUTMEGS.—At auction 51 boxes Singapore sold, comprising 99 to the lb., at 1s. 1d. to 1s. 2d.; 77s, 1s. 6d. to 1s. 7d.; slightly wormy and limed 99's at 1s. 1d.; 77's at 1s. 2d.

per 1b. PEPPER is quiet but steady, with fair black Singapore offering on spot at 1s.  $0\frac{1}{4}d$ ., Tellicherry at 1s. 2d., and Aleppy at  $11\frac{1}{2}d$ . per lb. White is also quiet, fair Singapore offering at 1s.  $5\frac{1}{2}d$ . and Muntok at 1s.  $5\frac{3}{4}d$ . per lb. At auction 119 bags Tellicherry offered and 32 sold at 1s.  $2\frac{1}{4}d$ .; 106 bags Ceylon also sold at 1s.  $0\frac{3}{4}d$ . to 1s. 1d. for fair and 1s.  $1\frac{1}{4}d$ .

PHENAZONE —Several consignments are being held up by the Customs under the recent Proclamation, but if the B/L

the Customs under the recent Proclamation, but if the B/L can be produced showing that the goods were on the way and consigned to a direct consignce before June 25 the goods will be released, otherwise a licence is required. Spot holders, of course, take advantage of the present situation by asking 30s. to 32s. 67, per lb.

PIMENTO is steady, with spot sellers at 5½d. per lb.

PLATINUM.—There has been no change for some time past, the price being from 20l per oz. The New York price stands at \$105 to \$107½. The American Government is making arrangements for liquidating its stock, which will probably be divided up among trade distributors for sale over a be divided up among trade distributors for sale over a certain period so as to avoid market disturbances. Owing to diminished production, however, the price is not expected

To become much easier.

Potash Iodide.—The exports from Japan during April amounted to 5.464 kin, valued at 35,240 yen. During the four months ended April 30 the shipments were as follows:

1917 1918 45,598 65,651 ... ... 286,565 Yen ... 397,674 ...

Of erude iodine 5,510 kin, valued at 30,371 yen, were exported during April, and the exports for the four months ended April 30 were:

1918 0.337 10,090 Yen ... 80,181 156,552 62,326

PYRAMIDON.—In view of the difficulty of obtaining licences

PARAMIDON.—In view of the dimentry of obtaining freenees to import, spot holders are asking 55s. per lb.

QUICKSILVER.—Dealers and brokers report a steady business at full prices. The export demand is good. Quotations range from 21l. 10s. to 22l. per bottle! The U.K. imports and re-exports for the six months ended June 30 were as fallows.

Imports (lb.) ... 77,016 Re-exports (lb.) ... 191,140 738,310 317,340 An arrival of 5,000 flasks has taken place from Seville this SACCHARIN is very quiet, with sellers of American 550 pure

at 20s. per lb. in bond.

SALICYLIC ACID.—The rise in phenol has found its expres-SALICYLIC ACID.—The rise in phenol has found its expression in the improved position of salicylic acid, the makers of which appear to be conferring together in order to bring about more profitable conditions. It is not suggested that the makers are combining, but they are working more in unison. The spot price for B.P. acid powder is now 1s. 9d. to 1s. 10d. per lb. As regards export trading it is likely that if the English makers are able to supply all requirements licences to import American will not be granted to dealers. American competition, however, is likely to be American competition, however, is likely to be fierce, and will need careful watching.

SARSAPARILLA.—Further business was done in red and yellow native Jamaica after the public sale last week. The landings in Lendon during June amounted to 50 bales and the deliveries to 125 bales; the stock on June 30 was 1,259

bales, against 258 bales.

SENEGA is quoted on the spot at 7s. 2d. per lb. A New York advice dated June 18 states it is very difficult to obtain on that market, and \$1.65 is quoted.

SHELLAC is quiet and easier for futures. On the spot the usual standard quality TN Orange is quoted at 387s. 6d., fine Orange 400s. to 420s., and AC cakey at 340s. The sales to arrive include July-August shipment of TN at 360s. to 355s. c.i.f., and for delivery easier rates have been accepted, including August at 390s. to 388s. to 387s. and October 392s. to 390s. to 393s.

SODA HYPOSULPHITE.—Fine pea crystals are in plentiful supply and in brisk demand at 21s. per cwt., and slightly less for large quantities.

Soda Salicylate is about 6d. per lb. higher at 3s. per lb. for B.P. powder on the spot. The rise is in sympathy with that of salicylic acid and other products which are made

TAMARINDS.—Fair Barbados are obtainable at from 60s. to 65s. per cwt., duty paid.

TARTARIC ACID is steady at 3s. 21d. per lb. on the spot.

TURMERIC is steady, with Madras finger offering at from

50s. to 55s. per cwt., as to quality.

TURPENTINE has been active for forward delivery at firm Spot price of American closed at 87s. per cwt. and July-August at 87s.

VANILIN.—The spot situation has, of course, become more stringent in view of licences being necessary to import, and atthough application has been made by dealers, we have not yet heard of any being granted. Spot holders have therefore been able to obtain a further advance from needy buyers, from 52s. 6d. to 55s. per lb. having been paid for small parcels.

WAX, VEGETABLE.—Japanese is firmer, with spot sales at 73s. per cwt., with 80s. asked in some quarters. The exports from Japan during April amounted to 15,590 kin, valued at 6,715 yen. During the four months ended April 30 the shipments were as follows:

1918 2,317,019 773,472 ... 1,132,034 Kip 483,954 Yen ... 353,763 159,843

# Trade with Czecho-Slovakia.

Inquiries are being received at the Department of Overseas Trade (Development and Intelligence) from firms in Czecho-Slovakia desirous of getting into touch with United Kingdom import and export houses. British firms interested in the Czecho-Slovak market are therefore advised to apply to the Department for information as to Czecho-Slovak firms which are ready to enter into business relations. Particulars of the goods in the export of which applicants are interested should also be given.

# Oils and Fats Restriction Order, 1919.

Following the announcement that, notwithstanding the provision of the above Order, Hankow soya-bean oil may be used for any purpose whatsoever, it has been decided by the Ministry of Food that kapok-seed oil, maize oil, mowrah-seed oil, niger-seed oil, poppy-seed oil, shea butter or oil, sunflower-seed oil, neutral lard, oleo oil, premier jus, tallow, stearine (beef and mutton), and dripping shall also until further notice be withdrawn from the schedule of Oils and Fats Restriction Order. The provisions of the Oils and Fats Restriction Order under which the use of certain scheduled articles is prohibited, except for edible purposes, still remain in force in regard to all other kinds of soya-bean oil and

to all other oils scheduled to the Order. All transactions must be carried out under licence, where necessary, accordance with the terms of the Seeds, Oils, and Fats Order, 1919.

# British Chemical Trade Association.

A lengthy report of the statutory and first annual general meeting of the British Chemical Trade Association, held at the Great Eastern Hotel, London, E.C., on June 19, has been sent to us for publication, but as three weeks have elapsed since the meeting took place, the Association are evidently not desirous of too prompt publicity of their proceedings. At the same time, the report shows that the Association, in spite of many difficulties, continues to make The fact that the Conditions of Sale and headway. Rules of Arbitration adopted by the Association are now on a well-established footing, and have saved many disputes and losses, is a good feature and worthy of support. Among other matters dealt with in the report is the formation of a Manchester Sub-Committee, an alkali and allied products Sub-Committee, action taken by the Association with regard to surplus stocks of chemicals, etc., held by the Government, the importation of dyes, etc. The membership is now practically 100, subscriptions received amounting to 470l., while the accounts show a balance in excess of expenditure of 272l.

# Zanzibar Cloves.

It is estimated, according to the latest Colonial Report on the Protectorate, that there are in the islands of Zanzibar and Pemba about 52,000 acres of cloves under cultivation, and about 4,700,000 trees in bearing. The large plantations are chiefly owned by Arabs, a few being held by Indians. The output varies considerably, the trees bearing heavy crops periodically every three to five years. The average output of recent years has been about 14,000,000 lb. The largest crop was that of the season 1911-1912, yielding 28,000,000 lb., of which Pemba contributed 20,000,000 lb. The smallest crop recorded of recent years was in the season 1912-1913, when only 4,750,000 lb. was harvested, of which Pemba contributed rather more than 3,500,000 lb.

The price varies according to the size of the crop. Marked fluctuations are due to outside causes. The price of recent years has varied from Rs.8.8 to Rs.27.9 per frasila of 35 lb. The Government levies a duty of 25 per cent. on all cloves exported. Deliveries for the season 1916-1917 (July 1, 1916, to June 30, 1917) and for the season 1917 (to April 30, 1918) were as follows:

		e	1916-17	1917-18
			lbs.	lbs.
Zanzibar			 7,305,165	2,226,686
Pemba	***		 10,602.200	7,896.671
T	otal		 17,907,365	10,123,357

Prices per frasila (35 lb.) during the season ranged from Rs.12.25 to Rs.27.56 for Zanzibar cloves, and from Rs.10.37 to Rs.27.25 for Pemba cloves. The high price reached during the season is attributed to prosperity in India and a continued demand there, with steadily decreasing supplies.

# Arrivals of Chemicals, Drugs, etc.

The following arrivals have taken place at the ports named:

Litharge (Can.), 15 London (July 1 to 7). Alcohol, butyl (Can.), 174 drms. Alcohol, wcod (U.S.), 85 drms. Almonds. (Port.) 107 mats. (Gibr.) 53 bgs., (Mor.) 3,066 bgs. 795 Milk-sugar (Amst.), 100 cs. Potash, caustic (R'dam), 22 drms. caustic Potash, chloride (R'dam), 250 bgs. Potash, pruss.
(Amst.) 6 cs.
Pyrogallic acid Casein (Anst.). 86 cits. Chemical products etc., Pyrogallic acid (Can.), 8 cs. 4 bxs. Anthracene (Fr.), 104 bgs. Quinine sulph. (Amst.), 28 cs. Argol (Cape). 36 kgs. Calc. borate (S. Amer.), 3.377 kgs. Lactic acid (Can.), 4 Soda acet. (Can.), 323 brls. Sulphonmethane (Can.), 4 kegs.
Tannic acid (Mont.),
60 brls. cs. Lead, white (Can.), 92 cks.

500 cks. Zinc white (R'dam), 100 brls. Dextrin (Jp.), 250 bgs. Drugs, crude: herbs (Aust.), 60 bgs. Balsams. not descr. (S. Amer.), 30 cs. Buchu (Cape), 3 bls. Camphor (Ch.), 25 cs.

Zinc oxide (R'dam),

Caraway seed (Amst.) 396 bgs. 500 bls., (R'dam) 140 bgs. Cardamoms (B'bay), 10 cs. Cinchona (Port.), 28

bls., (S. Amer.) 64 bls.

Colocynth (Alex.), 32 bls Coriander-seed(Mor.),

3,550 bgs.
Cumin seed (Mor.),
2,017 bgs.
Fenugreek seed(Mor.),
1,506 bgs. 421 sks.
Henbane (Alex.), 5 hls.

Juniper berr. (It.), 154 bgs. Kola (Port.), 55 bgs. Liquorice (Smyr.),

Liquorice naste (Smyr.), 335 cs.

Liquorice root (Smyr.), 300 bls.
Menthol, (Belg.) 42 cs., (Paris) 25 cs. Opium (Tky.), 92 cs. Orris (It.), 16 bgs. Quince seed (Cape),

Quince seed (Cape), 7 bgs. Senna (Alex.), 136 bgs. 119 bls. Tamarinds (W.I.), 378 brls. 4 cks. Valerian (Belg.), 11 pkgs.

Drugs, medicines, etc. glaxo (N.Z.), 5,803 tins; tablets, medicinal, (U.S.), 8

brls. Dyes, dyeing and tanning materials, etc. gambier (S'pore), 128 cs.; hematine cs.; hematine (U.S.), 24 brls.; indigo, (S. Amer.) 6 serons, (Cal.) 45 cs.; myrab. (Cal.), 1,850 bgs. 8,493 pockets; valonea (Smyr.), 335 bxs. 369 tons 623 bgs. (extract), 485

Egg products alhumen (S'hai), 40 cs.; yolk (S'hai), 350 cks; yolk, liquid aud albumeu (S'hai), 1,265 pkgs.

Gelatine (Fr.), 50 cs. Gums, resins, etc.: gum not described, (B'bay), 260 bgs., (Mor.), 12 bgs.; (B'bay), (Mor.), 12 bs., acacia (Alex.), 200 bgs.; copal (S'pore), 100bgs.195cs.; damar (S'pore), 50 cs.; 1000gs.195cs.; damar (S'pore), 50 cs.; karaya (B'bay), 351 bgs.; lac, shell (Cal.) 77 cs.; button, 50 cs.150 bgs.60 pkgs.; shell, 30 cs.; secd (Karachi), 10 bgs.; resin (Port), 100 brls.; sandarac (Mor.), 42 brls. 122

bgs.
Honey, (W.I.) 141 cs.,
(N.Z.) 999 cs.
Isinglass (E.I.), 30 cs.
Lead, white, (U.S.) 447
cs. 347 brls., (Can.) es. 347 92 cks.

92 cks.
Lime-juice (W.I.), 3
brls. 56 cks.
Lithopoue, (U.S.) 4,418
brls., (R,dam) 165

Magnesite (E.I.), 3,578

bgs. ils. essential, bgs.
Oils, essential, not described (Fr.), 5
cs.; mint (Jp.), 175
cs.; rose (Smyr.), 5
cs.; turpentine, (Swe.) 30 cks., (U.S.)

9,573 brls. Oils, fixed: coconut, (R'dam) 231 brls., (Amst.) 1,100 brls.; cottonseed (R'dam), 1,866 brls.; fish (Jp.), 5,000 cs.; olive (Gibr.), 158 olive (GIDT), 158
brls.; palm (R'dam),
2,468 brls.; rape
(R'dam), 230 brls.
3,045 cs.; soya beau
(Jp.), 4,984 cs.; sperm, (Port.) 55 brls. 1 ck., (Azores)

Perfnmery (Fr.), 6 cs. 94 bris.
Seeds: apricot kernels
(S'hai), 44 bgs.;
canary, (Tang.) 212
bgs., (Mor.) 4,220
bgs., (Gibr.) 15 bgs.;
copra, (W.1.) 439
bgs., (E.1.) 1,780
bgs.; cotton, (Smyr.)
84 tons, (B'bay)
16,120 bgs.,(S.Amer.)
11,061 sks.; groundnuts,(S'hai) 280 bgs.,
(W. Af.) 2,225 tons,
(E.I.) 2,540 bgs.;
lin, (E.I.) 64,936 bgs.,
(X. Af.) 38 bgs.; (N. Af.) 38 bgs. sunflower (Cape), 867 bos.

Soy (Ch.), 50 cks. Soy (Ch.), 50 cks.
Spices: arrowroot
(Cal.), 27 sks.; capsicum (E. At.), 9 cs.
102 bgs.; cassia
(Ch.), 300 bls.; cloves
(B'bay), 276 bdls.;
giager (E.l.), 55 bgs.;
mace (W.l.), 50 brls. 9 cs. 6 pkgs.; nut-megs, (W.I.) 51 bgs. 9 brls, (B'bay) 5 cs.; pepper (S'pore),1,558 bgs.; pimento (Fr.), 326 sks. 95 bgs.

Sponges (R'dam), 21 Starches, farina (Holl.), Starches, farma (Holl.), 100 bgs.; potato (Jp.), 6,440 bgs. Stearin, (Fr.) 126 bgs., (Cal.) 634 pkgs. Vauilla (N.Z.), 52 cs.

8 bxs. Wax, not described, Wax, not described, (Alex.) 19 bgs., (E. Af.) 362 blocks, (U.S.) 500 brls. Wax, bees', (Port.) 350

pkgs., (Mor.) 35 bgs., (Cal.) 20 cs. Wax, paraffin (scale), 437 brls.

### Liverpool

(June 30 to July 5). Acacia, gum (P.Sudau),

1,600 bgs. Alcohol (N.Y.), 40drms. Almonds (Sp.), 1,555 cs. 119 pkgs. 56 brls. 40 sks.

Barytes, (Sp.) 400 sks. 40 brls., (U.S.) 712 pkgs. 200 brls. Carbon black (N.Y.), 500 cs. Caseiu (R. Plate), 802

bgs. Chemical products: Acetic acid (U.S.), 100 brls.

Ammonia (N.Y.), 100 brls.

Bromides, soda (N.Y.), 100 cs. Calcium borate (S. Amer.), 1,757 pkgs. Potash bichro (N.Y.), 71 brls. bichrom.

Potash carb. (N.Y.), 30 pkgs. Soda carb. (N.Y.), 33 cks. oda phosph. (Antwp.), 52 cks. Soda

Zinc oxide (N.Y.), 1,350 brls. Cocoa-butter (Amst.) 68 bls.

Drugs, crude:
Calabar bean
(Liberia), 14 bgs. seed Caraway see (R'dam), 25 bgs. Cassia fistula(Amst.), 23 cks. Ipecacuanha Amer.), 15 bls. Liquorice paste (Smyr.), 77 cs. Senega (N.Y.), 21 bls. Simaruba (N.Y.), 6

Dextrin (N.Y.), 645 cs. Drugs, medicines, etc., not described (N.Y.), 139 pkgs.; plasters, medicinal (U.S.), 109

Dyes, dyeing and tanning materials, etc. extract, ches chestnut (lt.), 350 170 brls.; extract, tanniug (U.S.), 1,075 hematine brls.; hematine cryst.(N.Y.), 20 brls.; logwood (Hayti), cryst.(N.Y.), 20 brls.; logwood (Hayti), 142\(\frac{1}{2}\) tous; orchella (Port.), 5 bls.; que-bracho (S. Amer.), 2,000 bgs.; valonja (Smyr.), 3,717 bgs. Egg products: albu-men and yolk (S'hai), 961 nkys

men and yolk (S'hai), 961 pkgs. Glucose (U.S.), 6,837 brls. Houey, (Aust.) 5 cs., (W.I.) 19 brls.,(N.Y). 139 cs.

Lithopone (U.S.), 275 pkgs. Nicotine solu. (N.Y.),

12 cs. Oils, essential, not described (Sic.), 18 cs.; bergamot (Sic.),  $14 \times \frac{1}{2}$  cs.; petit-grain (Paraguay), 26 pkgs.; turp (N.Y.), 75 brls. turpeutine

(N.Y.), 75 brls, Oils, fixed; palm (W. At.), 792 cks.; pea-nut (N.Y.), 200 brls. Seeds: cotton, (W.I.) 13,162 bgs., (E. Af.) 500 bgs., (S. Amer.) 9,072 bgs.; copra, (E. Af.) 3,980 bgs.; ground-nuts (Jp.), 300 bgs.; palm ker-nels (W. Af.), 23,495

bgs. Spices: oices: chillies (E. Af.), 60 bgs.; cloves (E. Af.), 1,510 bls.,

(E. Al.), 1,30 os., pepper (Sp.), 10 cs., Starch, wheat (U.S.); 3,290 pkgs. 533 bgs. Stearin, (N.Y.) 224 bgs., (S. Amer.) 486 tres., (U.S.) 165 bgs. Wax, not described (N.Y.), 460 brls. 21

bgs. Wax, paraffin (U.S.), 1,734 brls., (scale) 200 brls.

Folkestone (July 3 to 4).
Drugs (Fr.), 3 pkgs.;
dyes (Fr.), 4 pkgs.;
perfumery (Fr.), 12 pkgs.

Harwich

(June 30). Drugs (Antwp.), 15 pkgs.; gelatiue (R'dam), 20 pkgs.

Hull(June 30 to July 4). Acetic acid (N.Y.), 100 brls. : alcohol (N.Y.)

brls.; alcohol (N.Y.), 84 drms.; barytes (Can.), 828 brls. 8 bgs.; carbon black (N.Y.), 701 cs; cottou-seed (Cal.), 5,010 bgs.; glucose (N.Y.), 1,000 cs. 300 ½ cs.; hematine crystals (N.Y.), 19 nkgs.; linseed 19 pkgs.; linsee (E.I.), 119,226 bgs. linseed (N.Y.), 119,226 bgs.; oil, not described (N.Y.), 630 brls.; palm kernels (N.Y.), 1,017 bgs.; palm oil (N.Y.), 8 brls.; potash caustic (R'dam), 149 drms.; zinc oxide (R'dam), 25 cks.; zinc white (R'dam), 80 brls.



The By-law Meeting.

SIR,-Mr. White's reason for refusing to introduce the bad by-law during his term of office was a good one. He put it thus: "I can't help getting killed, but I decline to commit suicide." I attended the Memorial Hall meeting with a mind open to conviction, but all that was said in favour of the by-law served only to turn me against it. The President and Secretary showed a pathetic dependence on legality when it served their turn. The members should now use legality to a better purpose. The obnoxious permissive clause was tolerated in the 1908 Act simply because it was permissive. Had the clause been mandatory, I venture to think that the whole Bill would have been thrown out at the eleventh hour. Thank the compromising politicians who squared all interests in 1908 with a permissive clause that the clause was, and still remains, permissive. Let it stand in abeyance until the members of the Society are prepared to sponsor unexamined apothecaries' assistants and military compounders, and on a straight issue the bad by-law will never be passed. The Privy Council knows how far it can force this matter. It would not dare to ask Parliament to override our Charter and legislate for the registration of unexamined persons. Therefore-with what ulterior motive the sequel may soon disclose—it tried to get the members of the Society to shoulder the responsibility. The conduct of Wednesday's meeting should make registered persons alert to see that the by-law does not get passed at a statutory meeting legally convened but sparsely attended. As they value the status they have earned by examina-tion, they should search the "Journal" diligently and attend personally if another meeting is convened, and run no risk of being beaten by a big bunch of voters brought to the meeting by financial or other interests. What I am most afraid of is that there will be a beating of drums and blowing of trumpets about a post-card referendum, and while the members are hypnotised by the idea, and believe that this easy means of defeating the by-law is about to be placed in their hands, the legal gentlemen will decide against it, the statutory meeting will be convened without any fuss, and the by-law quietly passed by its supporters. In my opinon registered persons have everything to lose by the bad by-law, and I hope that they will reject it utterly.

HAROLD E. MATTHEWS. Clifton

SIR,-I went to the meeting on July 2 with quite an open mind, as I felt one could not judge a matter without hearing both sides. I was surprised to hear members of the Council state that none of them liked the idea of the by law, but strongly recommended us to pass it; why haven't they the courage of their opinions? The Act gives the Council the power to make such by-law, but there is no compulsion about it; they say they are in honour bound to do it, but there appears to have been no pledge given, so I fail to see where the obligation comes in. On the other hand, the Government gave definite pledges: (1) That no licence for poisons would be granted where there was a chemist within reasonable distance. (2) That our title, pharmacist, should be preserved, and when asked in the House of Commons to include the word "Pharmacy," the member in charge of the Bill stated that the law officers of the Crown said that the word "Pharmacy" was covered by the word pharmacist. How have they fulfilled their pledges? Licences for the sale of poisons have been granted wholesale, and I don't think there has been a single licence granted where there was no chemist. When reminded of their pledge the Government put the blame on the local authorities. With regard to the word "Pharmacy," it was not long before the Judges made short work of that. Even if there is an implied undertaking, the Council are in no sense worse than the Government. I have just had

a good illustration of how the by-law is going to work if passed. On Sunday I met the son of a drug-store assistant, and amongst other things he told me his father was hoping to get a shop to manage soon, as, though he had failed to pass the Minor, he had got the Apothecaries' Hall certificate, and a new by-law was being passed which would get him on the Register. If the Society put the seven-year hospital men on the Register, how are they going to keep this man off, with about twenty years in the trade and his knowledge in preparing for the Minor? There are hundreds of such cases. Yours faithfully,

Tonbridge.

SIR,-There are three points with regard to the abortive meeting of members of the Pharmaceutical Society that I consider need a little explanation.

(1) Who was the member who protested that he could not get access to the meeting, and at whose instigation did he make the protest?

(2) Was the existence of such a protest proof that it was impossible for that member to get access to the meeting and record his vote?

(3) On whose instructions was a list prepared of mem-

bers who could not get into the meeting

In my view the ruling of the President was made on most inadequate grounds and with a view of escaping from an unpleasant predicament. I suppose that in any legal proceedings onus of proof would rest upon the aggrieved party, and I think it is very remotely probable that a person anxious to support the resolution could have secured sufficient evidence to convince a Court that it was a physical impossibility for him to attend the meeting and record his vote. It is hoped that the Council will now decide to drop the present proposals entirely and not waste time and money on counsel's opinion. I came away from the meeting more than ever a convinced opponent of the proposal. If the Council imagine that the obstruction of the Privy Council can be removed by a proposal as childish as they would have us imagine—the new by-law—they either very much exaggerate the obstructive power of the Privy Council. or we, as members, have seriously over-estimated the perspicacity of those we have chosen to represent us.

Yours faithfully, Birmingham. W. SHAKESPEAR.

Sir,—I should like to give my impressions of the memorable meeting which rejected the unjust by-law. The time for the private meeting was fixed as 2.30. For fully an hour members rolled up in their hundreds, pushing and crushing for admittance into a hall capable of accommodating about 300. The great unpaid took the platform and brought their artillery into action. They proceeded painfully to communicate the secrets, and to lay (as they termed it) their cards on the table. They told us nothing but what we knew. First the ex-President dubbed the craft a lot of idiots. Afterwards the President was publicly told that the Council were "a bag of twisters." Verily 'twas an eye-opener. Riot ran loose and men lost their tempers. 'Twas a wonder they did not go further. Then, to cap all, the President refused to have the statutory meeting duly convened because, as was alleged, a signed protest had been sent up to the platform from a body of dissatisfied men who could not get into the room. He declared subsequently that he had not seen the protest, and therefore could not vouch for its existence. He further refused to allow the meeting to vote by reason of the Secretary declaring that such vote would be illegal. Then came the storm. Men who had travelled hundreds of miles to register their protest saw they had been tricked, knew that their sacrifices had been made in vain, and "Bedlam became let loose." The President and his satellites left the platform hurriedly amidst a perfect hurricane of booing and hissing, and an informal meeting was held at once. Miller, of Cheltenham, was voted to the chair. Wolff moved the rejection of the by-law; it was seconded by a hundred men, and carried amidst a storm of cheering, renewed over and over again, which all goes to prove that the old gang must go. The President was heard to express his opinion that the Society would not last six months. Well, no

one in particular now wants his opinion. We pharmacists know better. We know that fresh men will quickly be found to form a strong Council, men with progressive ideas, men more in touch with the trade, men who understand the trade, and the trade will be all the better for the change. I am told there were over 1,000 men present, the bulk of whom had come from all parts-Glasgow, Durham, West Hartlepool, and South Wales. They came to guard their qualifications from daylight robbery. They closed their shops, travelled all night. and journeyed back again at midnight, embittered and exasperated. And, as I was whirled back to Manchester, their threats rang in my ears, "Let them bring up this by-law again if they dare, and we will return 5,000 strong." At last the pharmacist has asserted himself, and now we may see things. So it's "Close up the ranks," and "All together!" Yours truly,

Droylesden.

CHARLES H. GRIFFITHS.

SIR,—After some considerable service in the Army I have been demobilised, and am about to take over a business in Buckinghamshire. I was seriously considering the long deferred payment of my life membership fee to the Pharmaceutical Society. I have, however, just read your report of the by-law meeting, and I now consider it would be a sheer waste of ten guineas in these hard times. The Society will have to show a little more statesmanship, and even begin with a little common gumption before it gets me to waste money on it. As you well remark, it is completely "out of touch with the feeling of the drug-trade." and, so far as I know, Faithfully yours,
T. H. WEATHERILL. always has been.

Luton.

SIR,-Together with about a thousand other pharmacists, I attended a meeting at the Memorial Hall, on the invitation of the Pharmaceutical Society, to accept or reject certain by-laws. After an amusing preliminary performance exhibiting the arts of camouflage, red-herring dragging, and making twice two into five, the meeting settled down to the real work for which it was called. Mr. H. Miller was unanimously voted to the chair, and the rejection of the by-law being carried nem. con., as is admitted by the "Journal" in its brief account, stands good. We heard a good deal about legal and counsel's opinion in the opening stages, and I contend that in every logical and legal sense this by law question was settled by the votes of those present, and that any further meeting or even referendum is ultra vires.

Yours faithfully, Eastbourne. ARTHUR MILLS.

SIR,—One can hardly go into details of statements made at the private meeting on July 2, but as regards the very important point of finality I think we are all entitled to be informed by circular, or at next meeting if one be necessary, as to the vast difference in the statement read by Mr. E. White, and that afterwards made by Sir William Glyn-Jones. It seems impossible that the two statements could be based on the same document as Sir William Glyn-Jones said they were. - Yours faithfully, Gillingham. W. Adamson.

SIR,—The arrival of the C. & D. was awaited on July 4 with more than usual interest in Scotland, and, needless to say, the fiasco regarding the by-law meeting is soundly condemned. It is scandalous to invite members from far and near and on the opinion of a legal adviser to veto the whole proceedings. Scottish chemists have reason to-day to rejoice and be glad for the prompt action of members in appointing another chairman and giving the by-law its death-blow. This is the spirit which should animate our inanimate leaders. Nothing less than a postal vote or a "Society-paid" excursion to London (if our legal adviser's surmise be correct) can give the true strength of the resentment with which the by-law is viewed throughout the provinces. Should such a vote be taken, the majority will be no less proportionately than that at the meeting.

> Yours truly, SCOTIA. (4/7.)

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CHARLES II. GRIEFTERS

SIR. After some considerable service in the Army have been demoln ised, and am about to take over business in Buckinghamshire. I was seriously consider mg the long deferred payment of my life membership to in the Pairma cutical Society. I have, however, justiced your report of the by law meeting, and I now consider it would be a sheer waste of ten gumeas in thes hard times. I e Society will have to show a little mor statesmanship and even begin with a little commo gumpt in hel re it gets me to waste money on it. A you well remark, it is completely "out of touch wit the feeling of the drug trade," and, so far as I know Futhfully yours, T. H. WESTBERLES. ilways has been

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> Yours truly. Scorts (17)

SIR,-Kindly permit me to make a few remarks acknowledging the indebtedness of the qualified chemists of the United Kingdom to The Chemist and Druggist for its resolute opposition to the unjust by-law which the Pharmaceutical Society has attempted to foist upon us. The names also of those stalwarts, Herbert Skinner, Hugo Wolff, A. S. Campkin, F. G. Hines, H. B. Figg, and Harold Miller, will go down in the history of pharmacy as those of men who unfalteringly upheld the cause of right and justice, and as such they will enjoy the esteem and admiration of those who follow on. As for those members of the Council who voted in favour of the by-law, we may well leave them to the contempt of posterity. The inglorious and hasty retreat of the officials of the Pharmaceutical Society when they found that they dare not take the vote of the meeting, which they themselves had convened, was a sight worth remembering. The puerile legal quibble which they introduced when confronted with their exasperated members would never have been heard of if they had seen that the majority was in their favour. I think it would be well for the By-law Protest Committee to remain in existence and keep a watchful eye on the Society, for there is no telling what pretty plot the disappointed officials may even now be concocting in their desire to ruin pharmacy and make our qualification a langhing-stock. I would recommend the Council to resign in a body, for the bulk have shown themselves utterly incompetent and untrustworthy, and blind alike to the interests of chemists and the public safety. Yours, etc.,

LANCASHIRE. (213/74.)

SIR,—The Memorial Hall, Farringdon Street, was erected to the memory of "Ejected Clergymen of When one remembers the "Clarendon Code" and the four monstrous Acts which comprised it, what more sinister hall could have been chosen for recording the downfall of pharmaceutical politics? It stands today a memorial to the loss of prestige of the whole Pharmaceutical Council—the impotence of the Chairman in not asserting his own good common sense (and no man has more), in spite of the solicitor's ruling (which was probably good law, but certainly bad policy), in allowing a legal quibble to stand in the way of members voting. It stands as a memorial to the failure of the executive officers in thinking that a hall that size and the pharmaceutic manner of admission could hold a fraction of the men whose existence as a corporate body was threatened, and whose very qualification was to be reduced to a scrap of paper. And a lasting memorial to the utter degradation of British pharmacy where pharmacists forgot to act as gentlemen, and some forswore their nationality as Englishmen. A reminder that the Council, as a body, even now does not realise the psychology of their fellowcraftsmen. Oh! the pity of it that the President-fine man that he is—Mr. Edmund White, who has stood for all that is good in our craft, and Sir William Glyn-Jones. whose record is unblemished, should have left the hall hissed and booed off the platform by the men who have always looked up to and honoured them. Is there no remedy? Cannot the Council realise that a "bold course will be the best course" in the long run? If only the Council will bravely face facts and act, the Memorial Hall will yet stand as a tribute to the triumph of common sense over political jobbery and wire-pulling.

Yours truly,

SIR,-Your comments on the Pharmaceutical Society are very apt and very true. But how comes it that the Council are entirely out of touch with what is wanted? Of course, the reason is that 90 per cent. of the chemists do not trouble themselves about the Society and who runs it until the damage is done. The "M.P.S." is "too busy," has "no time," etc. It seems to me that the right man for the job would be the traveller. He knows what chemists want, and could easily keep them well in touch with all that is happening. It ought not to be a case of waiting to see who will offer himself, but the chemists should ask him to stand, he would practically have to "fall in," and the very fact of his

being asked to stand should, and, I think, would, make him proud to do all he could for their interests.

Yours truly, G. G. (217/38.) STR,-I note that a Cornish chemist thinks that if tho

by-law is passed a boycott of the successful apothecaries' assistants who may wish to work in shops will be instituted. A correspondent also thinks that institutional dispensing will be reduced to a farce, etc. Truly, as Shakespeare says, "There is no darkness but ignorance." Now the great majority of eligible Hall men will be institutional dispensers of very long experience. They will be responsible public service officials in receipt of a fair salary, and many of them with prospects of a pension or other emoluments. The "boycott" idea will be terrible, as naturally these men will throw over their appointments and rush into the chemists' shops in order to commence life over again, working double the hours for smaller pay. The certified anothecaries' assistants held public positions long before the Pharmacy Acts came into existence. Mr. G. S. V. Wills has stated that in his early days, when he was appointed as dispenser to the Household of Queen Victoria, although he was a qualified chemist, it became essential for him to take the Hall qualification before the appointment could be ratified. The apothecaries, of course, were (and are) medical men, and the truth is that many of the old apothecaries' assistants held a status possessed by few pharmacists Yours faithfully, to-day. A. W. (216/52.)

 $M.\ P.\ S.\ (216/28)$  sends us the following extract from the "Historia Pharmacentica Britanniorum" dealing with the "war of the medicine men":

1919. "War had been waged intermittently for many years, but a climax was reached at this period. It is to be remembered that after the armistice of 1908 a treaty had been ratified which permitted the Official tribe to allow their Beseigers to occupy the chief Redoubt of the Fortress, at any time they—the Official class—felt so disposed; in 1908, when the treaty was drafted, it was not thought that any man of the Garrison would ever be disposed to do this thing. The Beseigers naturally wished the clause to ho acted on, and carried on a campaign for years; consternation arose in the Fortress when it became known that their Prevost and a majority of the City Fathers were themselves anxious to surrender the Redoubt, and had, in fact, been in negotiation with the enemy for this purpose.

"There were insistent cries of treachery, hurried meetings were held and plans formed for continuing the War. The Fathers were likened unto those Fish which are called 'Jelly,' but excused themselves on the main point, suggesting that only a small band of about 150 would enter. The Garrison, however, arose in their might, and were not to be gainstid, it was held, that if the Beloubt was suprembrad. it was held, that if the Redoubt were surrendered to even this small band, the Fortress itself was rendered incapable of defence; that there was no reason whatever for surrender, because the position was absolutely impregnable: hence men of the Garrison, and women too, ran this way and that, organising endless resistance, choosing new leaders, and preparing a funeral for those who had sought to betray them.

Artemas Junior (216/26) puts his views of the by-law meeting in parable form, as follows:

1. Now it came to pass that there was gathered together a great number of they that followed the calling of Galen, and they did discourse the one with the other, regarding this thing.

2. And there were heard many strange tongues, for there were gathered there men of Dur, and men of Yor, men of Carmarth, and men of Corn, and the noise of their tongues did fill the whole place.

3. And there entered unto them a certain one whose name was More, aye even Par, and he was famed among them, for did he not sit in the Council, and had he not signed a letter asking them to be of an open mind concerning this thing.

4. And he perceiving they were from the country places, did think this a fitting time to see to the state of their minds.

5. And he did hold converse with them, saying, "What think ye of this thing?" And they, being of

a simple nature, did make answer, "We have an open mind.

6. And he did improve the time by saying unto them, "Thus should ye do, thus shall ye think, thus shall ye

7. And they, being what they were, were astounded at his logic, and did depart from that place marvelling at the openness of his mind.

Capsicum (62/7) breaks out into poetry in "A Ballad To-day." The following are three of the verses: of To-day."

Of late our efforts have inclined, To swell the chemists' ranks, For which good deed we hoped to have The craft's unstinted thanks. Said I, "What is this wondrous plan You speak of with so much élan?"

Sir William then took up the tale.

"Apothecaries," said he,

"Who pay the sum of fourteen pounds,
Upon the roll shall be
Placed.equal with the chemists who
Have qualified like me and you."

Said I, "Why register such men Who have not done their part (By drudgery in chemists' shop)
To learn the chemist's art?''
Sir William said "It must be so,
Province we promised long ago," Because we promised long ago.

Sapiens writes: "We do not care a fig (Figg) for the 'Unjust By-law.' We will not bury ourselves in an ant-hill (Antill) or bow (Bow) before the Privy Council, but will hurl (Hearle) it from us for the protection of our kith (Keith) and kin."

SIR,-With regard to the proposed by-law, it is not generally known that Shakespeare was dead against it in his day, viz. :

"It Boots thee not to be compassionate."
"Richard II.," Act i. scene 3. Bold bad baron-knights have such a lot to answer for.

Yours faithfully, Southfields, S.W.

THOMAS COTTMAN.

#### North British Executive.

Sir,—I beg to thank those electors who so kindly assisted me at the last election. If any members anxious to bring forward matters for the future benefit of the craft will kindly communicate with me, I shall be glad to lay their suggestions before the Executive.

Inverness.

efore the .... Yours truly, THOMAS MACKENZIE.

#### The Question of Salary.

SIR,—The salary "Country Manager" (C. & D., July 5, p. 75) ought to ask is 5l. weekly, and I would advise him to press for that or go as a locum or start on his own. My experience has been similar to his. After nineteen years with one man I decided, in 1914, to start a business on my own. I was also "fed up." I did so, and am not sorry I did. The energy required to manage another's business is fruitless, and better use it on one's own behalf. Yours, etc., PHARMAKON. (214/14).

SIR,—I think "Country Manager" (C. & D., July 5, p. 75) should not postpone any longer the duty of asking for a "rise." Of course, his "healthy surroundings" are an asset, but these hardly compensate for the difference between his present stipend and the salary he might receive if he held that his certificate of qualification entitled him to 5%, per week, his length of service to an additional 1%, per week, and his takings to a commission on sales. He might suggest to his employer that the increase in salary be made retrospective, and give the assurance that the cheque received would be invested in Yours faithfully, LONDON MANAGER. (213/18.) Joy Loan.

SIR,—The letter from "Country Manager" should dispel any doubt as to the necessity of trade unionism in

the drug-trade. For a skilled, qualified chemist to be earning 2l. 10s. per week when roadsweepers and lamplighters can easily earn 31. 108. is simply scandalous. His pathetic human document should bring the blush of shame to the cheeks of those who have sweated and exploited him. The impression, rightly or wrongly, is gaining ground that the object of the Pharmaceutical Society, in endeavouring to place apothecaries' assistants on the Register, is so that the state of affairs described by "Country Manager" may be continued, and a plentiful supply of cheap labour secured. The reply to this is for all qualified chemists who are not proprietors to cease subscribing to the Pharmaceutical Society, and put their money in a trade union instead. But not in a body like the National Association of Assistants, but in a real live union, such as the Amalgamated Society of Pharmacists, Drug and Chemical Workers or the National Warehouse and General Workers' Union.-Yours, etc.,

ANTI-SWEATING. (215/13.)

#### Norwegian Cod-liver Oil.

SIR,-Having just returned from an extensive trip throughout Norway, I have come to the conclusion that the cod-fishing in the Lofoten district has been very precarious owing to the lack of labour and petrol. Many fishermen appear to have abandoned their trade in favour of other and better-paid industries, while those who have remained have been paid higher wages for their services and higher prices for the livers. As much as 1.65 kroner was paid for a kilo. of liver which, although yielding a larger amount of oil than usual, brought the price of a 25-gallon barrel of refined non-freezing cod-liver oil up to 400 kroner per barrel, and this price has been asked and upheld by the Norwegian Government. The Fin-marken fishing, which follows the Lofoten, has also been very unproductive, and as this season (May and June) is closed, the result is that the price of cod-liver oil from the Lofoten district has not only been maintained, but it is an agreed fact that medicinal oil will become much dearer when the season opens in September. I visited every centre of the fishing right up to Hamerfest, also the Finmarken centre at Tromso, and the ports of Aalesund, Bergen, etc. In previous seasons there has always been a fair quantity of oil left over, but this year there are no old stocks, and, although there is a slight increase in production compared with last year, the demand has increased in order to supply those countries which have been deprived of fats and oils during the war. The foregoing facts show why very high prices will have to be paid for oil this year.—Yours faithfully,

J. HERTZ. 9 Mincing Lane, E.C. 3.

#### Co-ordination Wanted.

SIR,-I am directed by my Association to point out the absolute lack of co-ordination in the arrangements for the three big events which are taking place in London during July—viz.: (1) The "Unjust By-law" Meeting; (2) the Chemists' Exhibition; (3) the B.P. Conference. These, unfortunately, all take place in different weeks, when, with a little prior arrangement, they could all have been held in the course of one week. Very few have been held in the course of one week. men from the provinces will be able to attend them all, important as they all are. Another year could not mutual arrangements be made so that when one comes to town it may be possible to attend a number of events, and thus ensure a larger gathering than is possible when only one horse runs in the race? Yours faithfully, T. H. NEWTON.

Hon. Sec. Hull Pharmacists' Association.

#### Legal Queries.

W. C. G. (203/52).—Calomel is not a scheduled poison, and hence unregistered persons may sell teething powders containing that ingredient.

B. C. (187/50).—We believe that the words "aspirin" and "lysol" are registered trade-marks in Holland, although here they are public property.

Dispenser (20338).—Only registered chemists may sell preparations containing scheduled poisons. Full particulars of the legal requirements are given in The Chemist and Drugg's st Diary, 1919.

- C. H. W. (214/33).—PATENT MEDICINE LICENCE.—Stalls in a market place cannot be licensed for the sale of patent medicines; hence it is illegal to sell or expose for sale these medicines at such places.
- W. N. B. (208/10).—REGISTRATION OF COMPANIES.—The process is explained in *The Chemist and Druggist Diary*, 1919, p. 100. Your solicitor will carry through the registration if you do not feel capable of doing it yourself.
- J. J. H. (196/42).—The list of spirituous medicines upon which rebate is allowed under the Finance Act, 1918, and Immature Spirits Act has not been published. All preparations which are medicinal are included, with a few exceptions, such as Sp. menth. pip.
- D. S. (206/54).—An auctioneer's licence costs 10l. pcr annum, this including the appraiser's and house agent's licence. It is obtainable from the local Inland Revenue Office. There is nothing to prevent you from carrying on a transfer and valuer's business as well as that of a chemist,
- P. A. (241/18).—Wholesale Dealing.—A legal qualification is not required for carrying on the business of a wholesale druggist, but the Pharmacy Act requires that statutory poisons sold to retail dealers shall bear the name of the article and tho word "Poison."

Halifax (214/72).—(1) LIABILITY TO MEDICINE-STAMP DUTY.— The fact that a label is copyright does not involve liability to medicine-stamp duty. The mention of the "body-names," "lung and chest," do not render the preparation liable. (2) Anyone can use the title "manufacturing chemist," but if an unregistered person employs it in connection with a retail business he will be liable to prosecution under the Pharmacy Acts.

Victor (200/39).—VENEREAL DISEASE ACT.—This Act does not prevent chemists from dispensing prescriptions for venereal diseases, nor does it prevent the sale of sandal capsules over the counter. There must be no recommendation of remedies, nor should the disease for which the drugs are to be used be mentioned on the label. As the Act was passed in the interests of the medical profession it is not surprising to find that it is equally illegal to recommend prophylactics.

R. W. B. (208/12).—Under the War Emergency legislation affecting house tenants and restricting rent increases, a landlord cannot remove a tenant unless the tenant does not pay the rent or perform the other conditions of the tenancy. If the house is reasonably required by the landlord for the occupation of himself, some person in his employment, or some person in the employment of one of his tenants, the Court is required especially to consider whether other accommodation is available for the tenant before giving possession to the landlord. Landlords who have not purchased the house since September 30, 1917, are allowed to try to satisfy the Court that they should be permitted to turn out the tenant "on some other grounds which may be deemed satisfactory by the Court."

Manufacturer (7/7).—Compressed Lozenges.—There can be no doubt that the compilers of the British Pharmacopœia intended given drugs to be presented to the patient in particular physical forms when prescribing lozenges. This is emphasised by the fact that four different bases are given for this typo of drug on page 528 of the B.P. We do not think that a compressed lozenge, if it were possible to compress it with the actual bases prescribed in the British Pharmacopæia, would even then strictly comply with the requirements of that authority on the ground that a lozenge is invariably understood to be a non-compressed article easily dissolved in the mouth at a more or less given rate in contra-distinction to a compressed tablet which was well known when the word lozenge was used in the Pharmacopæia. The fact that lozenge and compressed tablet were well differentiated when the British Pharmacopæia was last published, and the very fact that it is impossible to present a compressed drug in exactly the same physical condition as it exists in a lozenge, would, in our opinion, render the distinction so definite that the one could not be properly substituted for the other. It would, however, be quite in order to sell, e.g., a compressed bismuth lozenge under the designation, "Compressed bismuth lozenge, B.P. strength."

#### Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

Harrow (196/1).—We think the use of distilled water would do away with the troublesome deposit which forms in the bay rum on standing. In place of carbonate of magnesia use kaolin, as the former is slightly soluble in water.

J. P. L. (215/26).—Powder for Making Paste for sticking purposes.—This consists chiefly of rye starch; there is very little evidence of its being rye flour. It also contains small, but notable, quantities of zinc, chloride, and sulphate; also a trace of aluminium.

Albion (202/7).—The questions set in the Scholarship examinations and the Major examination of the Pharmaceutical Society are usually printed in the "Calendar," but that publication was suspended for 1919.

Major (212/2).—OPTICAL EXAMINATIONS.—The two qualifying bodies are the Spectacle-makers' Company (11 Temple House, Temple Avenne, London, E.C.) and the British Optical Association (Clifford's Inn, London, E.C.), who supply their syllabus on application.

C. F. (181/56).—(1) Agar agar is powdered by a disintegrating mill, but as used in medicine it does not require to be in a fine powder. Nutmegs are difficult to reduce to powder form, especially in warm weather. (2) GLAZING PASTRY.—Probably the dried albumen and case in could be employed as a cheaper substitute for egg and milk, usually employed for glazing pastry. You should try a few experiments with these ingredients.

S. & Co. (205/24).—There is no English translation of Gattefosse's "Agenda du Chimiste Parfumeur."

- A. H. C. (208/42).—Preserving Ginger.—This is a candying process in which the green ginger is immersed for definite periods in syrups of different strongths.
- L. L. (213/45).—Liquid paraffin, not being readily emulsified, is unsuitable for the manufacture of lime cream.

Bill (195/71).—Goodwill of a Business depends upon position, opposition, security of lease, certainty of profits, and general desirability as a going concern, and hence an opinion cannot be given without knowing these particulars, as well as gross and net profits.

Bucks (197/65).—It is not possible to say what is the fair value of the business you refer to without details as to stock and profits. You are fortunate in being already intimately acquainted with the business, and will have formed an idea of its value. Goodwill depends largely upon position and security of lease.

#### Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," July 15, 1869,

The Manufacture of Glucose.

At the Conversazione of the Pharmaceutical Society Mr. W. T. Fewtrell, F.C.S., exhibited a model of the "Converter" used in Mr. Alexander Manbrés process for making glucose, and as many pharmacists have doubtless very vague ideas respecting the importance of the manufacture thus brought under their notice, we gladly impart some of the knowledge we obtained at the Saccharine Works in Spitalfields. A single manufactory adapted for the production of 36 tons of glucose, per diem, from starch or grain, is an impressive sign of the industrial application of chemistry. . . . It is now extensively used in this country in conjunction with malt for breving, being known as Manbré's Puro Malt Saccharine. According to a calculation, apparently based on trustworthy data, 1,075 lb. of the saccharine may be advantageously employed instead of five quarters of malt in a brewing of forty barrels, for which ten quarters of malt would otherwise have been used. By this substitution the quantity of nitrogenous matter produced is reduced to one-half, and the beer obtained contains more alcohol and carbonic acid, and is far less likely to turn sour than that made from malt alone. As the malting of barley is simply an operation for partially converting the starch of the grain into glucose, the substitution of pure glucose for malt seems a perfectly justifiable refinement of brewing.

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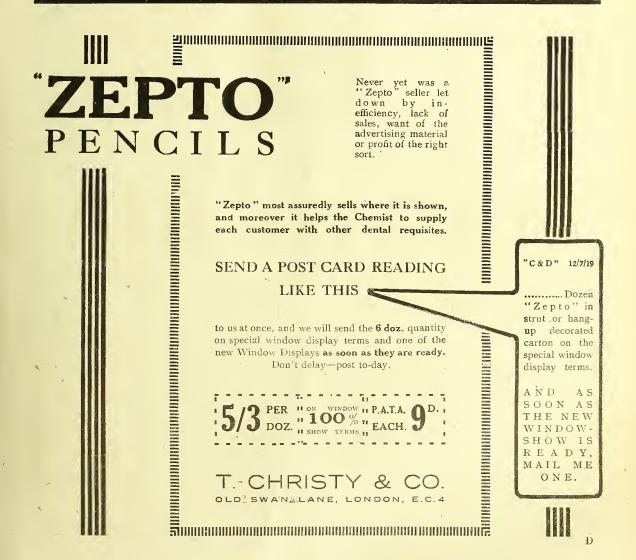
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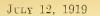
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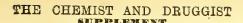
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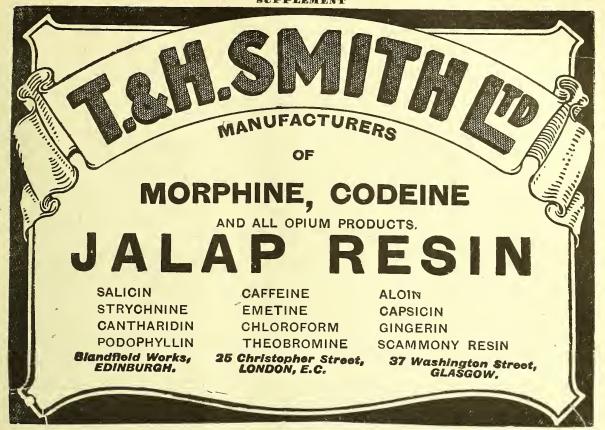
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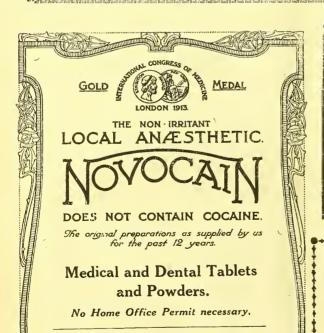
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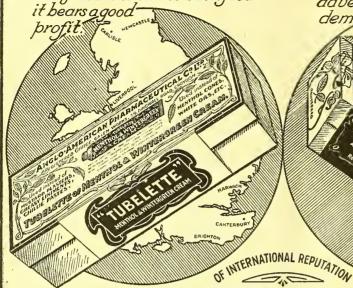
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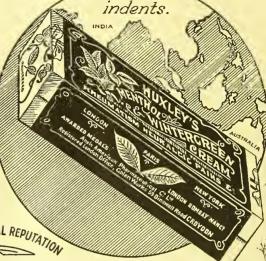
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Full Strength. gr., 330 in 1. Half Strength. Ib., approx. 7,000 tablets 50/-27/- per lb. 14,000 lb. 48/-25/-5 lb. 35,000 99 46/-23/-Less than 1-lb. lots 76 4/- per 1000 Packed in boxes of 100 5/- per doz. boxes. Terms: Net Cash with Order. Post Paid on £1 value upwards.

SACCHARIN POWDER, Monsanto 550."

1 lb., 156/-50 lb. 152/6 per lb. 10 lb., 154/-25 lb., 153/-

> Delivered Free. Duty paid. Net Cash with Order.

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 $\frac{1}{3}$  grain 330 in 1, at LESS THAN THE AMOUNT OF DUTY ALONE.

These have been tested and are fully guaranteed.

I am offering these until cleared at 32/- per pound; 4/9 per thousand.

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Each tablet contains 5 gr. B.P. Aspirin. As supplied by us to the Military Hospitals. Bottles—25s, 4/6; 50s, 8/-; 100s, 14/9.

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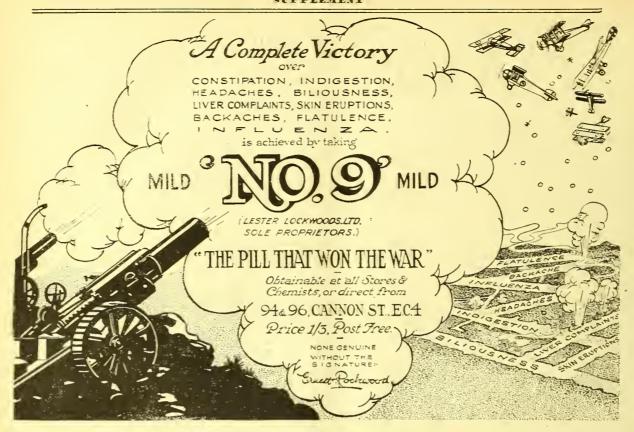
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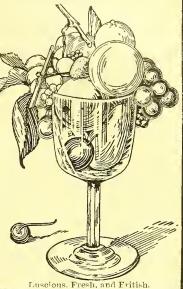
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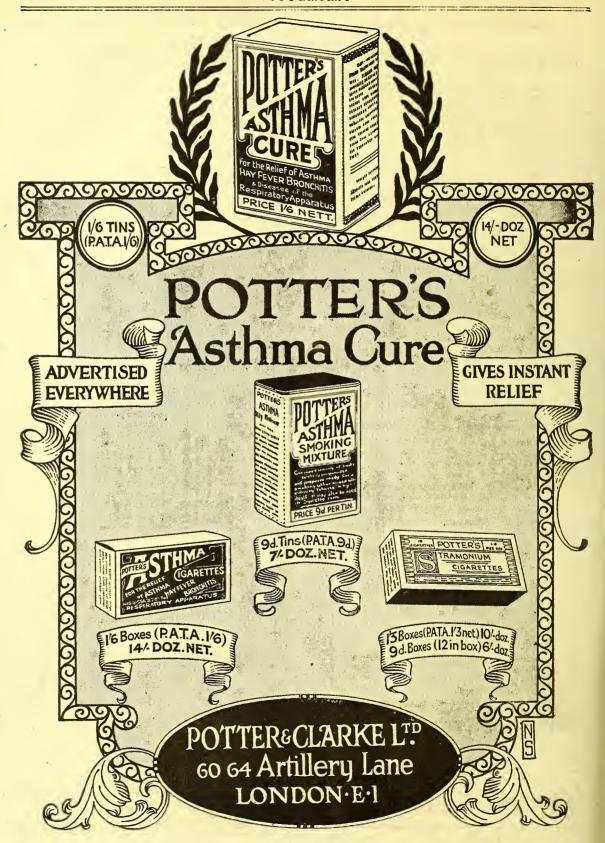
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Banking and Exchange Business of every description transacted. The Bank will gladly furnish the Chemical and Drug trades with all available information regarding Trade and Industry in Foreign Countries.



24 LUNA STREET, GREAT ANCOATS, MANCHESTER

# HOVENDEN'S THEATRICAL GREASE PAINTS.



These paints are manufactured at our Factory in Britannia Row, N. Guaranteed pure, colours perfect, and quality better than any foreign make.

VIDE Test monials.

### MADE IN THE FOLLOWING SHADES :--

1 Very pale flesh. 1½ Moderately pale.

11 Burnt umber or

13 Red brown or

14 Chocolate or

12 Black.

2 Fair complexion.  $2\frac{1}{2}$  Medium flesh. 17 Carmine 3 Pale complexion. vermilion. 3½ Slightly sunburnt. 18 light. " medium. 4 Dark flesh. 19 5 Sallow or Chinese. 21" dark. 51 Dark sallow. 6 Yellowish flesh. 20 White.  $6\frac{1}{2}$  Japanese. 23 Light grey. 7 Brown. 24 Dark grey. 8 Armenian Bole. 25 Old red. 26 Light blue. 9 Sunburnt or Indian. 31 Middle blue. 10 Light brown. 27 Dark blue.

28 Light yellow Othello. 29 Dark yellow. 30 Rose.

15 Brick red.

16 Dark brown.

32 Dark rose. Chiome. Cition.

5/- doz. Sticks. Special quotation for quantities.

Mulatto.

North African.

### PEOPLE, OPINIONS FROM POPULAR

Mr. MARTIN HARVEY, Grand Theatre, Hull.

"I have been intending for some time to send you a testimonial about your Grease Paints. I have given them a good trial now, and I think I can honestly say that they are superior even to the German, and that, alas! is saying a good deal. I compliment you heartily upon your achievement."

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"I thank you for sample of your Grease Paints you sent, and I find it a very excellent preparation. I shall

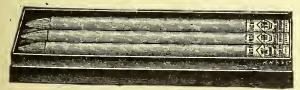
certainly continue to use it.

Mr. PHIL RAY.

"Not being fortunate enough to receive a sample of your excellent Grease Paints, I purchased same for myself,

"Not being fortunate enough to receive a sample of your excellent Grease Paints, I purchased same for myself,

"Not being fortunate enough to receive a sample of your excellent Grease Paints, I purchased same for myself, and after a lengthy trial I have no hesitation in saying that, from my point of view, it is immeasurably superior to any foreign make."



### INING PENCILS.

English Manufacture.

Black, Old Red, Brown, Light Brown, Dark Brown, Light Blue, Medium Blue, Dark Blue, White, Flesh, Light Grey, Dark Grey, Carmine. 3/3 per doz. Sticks.

Subject to 2½% Cash Discount. A copy of our Monthly Illustrated List will be sent on application.

29, 30, 31, 32 & 33 BERNERS ST., OXFORD ST., W. 1. Tel. No.: Museum 2810 (3 lines). LONDON. And 89, 91, 93 & 95 CITY RD., FINSBURY, E.C. 1. Tel. No. London Wall 6260 (2 lines).

Factory: 41 to 53 BRITANNIA ROW, ISLINGTON, N.

# Bay Rum, Rosemary & Cantharidine

ADMITTED TO BE

THE MOST EFFECTIVE FORMULA THE MOST ATTRACTIVELY GOT-UP THE BEST VALUE

8-oz. Bottles (Sprinkler Stoppers) 8/6 doz., 99/- gross, carriage paid.

Own Name and Address.

Showcards Supplied.

### SPECIAL OFFER.

With every order for One Gross we will send FREE half a gross Shampoo Powders bearing your name and address.

YOUR ORDER—NOW!

CARMOL LTD., Washington Street, BIRMINGHAM.

Telephone: Midland 1852.



### G. B. KENT & SONS, LTD.

Are known the World over as the Largest Manufacturers of

> RITISH RUSHES

Please write for full Particulars to-

75 Farringdon Road, E.C. 1.

Specially pre-pared for the fil-tration of Water, Beer, Spirits, Vinegar, Wines, Gelatine, Pharma-ceutical Products and Essences.

CIVES A CLEAR AND SPARKLING FILTRATE AT A MINIMUM COST.

PURE, NEUTRAL AND INSOLUBLE.

Write or Samples and Prices to TURNER BROTHERS ASBESTOS Co., Ltd., ROCHDALE, England.



### "WAVCURL" promotes Curly Hair.

An absolutely unique scientific toilet preparation. Harmless and effective. Sells at sight. Widely advertised and shows a splendid margin of profit on minimum protected price. Every Chemist who appreciates the value of quick returns and satisfied customers should stock "WAVCURL." Descriptive circular will be sent to all chemists on applying for it. Special to Wholesalers.

Packets, 1/6, at 9/- per doz. Bots., 2/9, at 21/- per doz. THE NEW WAVCURL CO., Fulwood House, High Holborn, London, W.C 1

# ALL CHEMISTS

THE GOLD MEDAL FRUIT DRINK. Quick Seller. Big Profits. Over 40 Years' Reputation.

\*\*ABDINE" is the most popular Health Drink. Superior to all Mineral Waters, Sold in Packets, 146. each; Boxes of 13 packets, 146. 

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### P.A.T.A. NOTICE.

113 Temple Chambers, E.C. 4,

The following prices will come in force as from the date of this issue:

		Minimum	. Minimum
Adverti	sed.	Retail .	Wholesale
Price.		Price.	Price.
1 2100	AYRTON'S		
$6\frac{1}{2}d.$	Lemonade Tablets	$\epsilon_{\frac{1}{2}}d.$	58/- gross.
_	EVANS, CADD & CO	.'s Preparat	ions:
2 oz.	Cærwisc Eau de Cole	ogne 3/-	27/- doz.
4 oz.	,, ,,	5/6	51/6 ,,
8 oz.	11 12	11/-	99/- ,,
	PYLINTA (Mumford		less
5/-	Powders	5/-	45/- 2½ %
5/-	,, Ointment	5/-	45/- for
5/-	,, Aperient Tal	olets 5/-	45/- cash
	WANDER'S Preparat	ions:	
2/6	"Cristolax" (Wander	Malt 2/6	23/-
-1 "	Extract with Par		

NOTE:—Through an oversight on the part of the P.A.T.A., the prices of "Cristolax" were quoted in last week's *Chemist and Druggist* as being 2/- M.R.P. and 18/6 M.W.P.

The revised prices appeared in the May Anti-Cutting Record under the heading "WANDER MALT EXTRACT with COMBINATIONS." The above are, therefore, not further revised prices.

The proprietors also desire to point out that the cross reference on page 69 of the Year Book does not mean MALT and COD LIVER OIL but WANDER MALT EXTRACT with PARAFFIN.

# RAYOLENE

The best preparation for Fire Ranges, Cycles, Mail Carts, Gas Stoves, &c., exactly as supplied to Coach and Carriage Painters. Free from methylated spirits.

Pints. 9d. tins. ½ pints. Retail Prices 9d, Wholesale -6/6 12/6 24/- per dozen One box, containing 8 dozen 9d. size, or 4 dozen 9d. and 2 dozen 1/6 sizes, sent carriage paid for 48/-

### RAYOLENE Varnish Stains

Brilliant, durable, and easy to apply. The popular shades are: Oak, Walnut and Mahogany.

9d tins. ½ pints. Pints 9d. 1/8 3/-Retail Prices 26/- per dozen 6/6 13/6 Wholesale -One box, containing 4 dozen 9d. and 2 dozen 1/6 size (all one shade or assorted) sent carriage paid for 50/- nett. 3 boxes less 5 % discount.

### TEXALO MANUFACTURING CO.

Manufacturers of

PAINTS, VARNISHES, WATER PAINTS, DISTEMPERS, &c. &c. SOUTH SHORE, BLACKPOOL, LANCS.

Write for Complete Price Lists.



The original and only reliable preparation for Cleaning and Polishing Cutlery, &c.

In Canisters, 1d., 2d., 3d., 6d., 1s., 2s. 6d., and 4s. each.

### JOHN OAKEY & SONS, LIM. MANUFACTURERS OF

### Emery Cloth, Black Lead GLASS PAPER, &c.

"WELLINGTON" KNIFE POLISH

The Original Preparation for Cleaning Cutlery, Canisters, 1d., 2d., 3d., 6d., 1s., 2s. 6d., and 4s. each. SILVERSMITHS' SOAP

For Cleaning & Polishing Silver, Electro-Plate, etc. Tablets, 6d.
"WELLINGTON" BLACK LEAD

In Solid Blocks, 1d., 2d., and 4d. each, and 1s. Boxes. Polishing Paste, Furniture Polish, Plote Powder, Rouge, Urn Powder, Steel Polish, Crocus, Tripoli, Brunswick Black,

Westminster Bridge Road, LONDON, S.E. 1.

# IR-M

REMEDY CERTAIN FOR PARASITIC MANGE

HORSES, CATTLE, DOGS, &c.

BOXES OF 1 doz. 1/6 packets, 121- per box. On P.A.T.A. list. McDOUGALL BROS., Ltd., 66/68 PORT STREET, MANCHESTER.

IMPORTERS—FIRST-HANDS

30 Great Tower Street, London, E.C. 3. Established 1884. Phone—Central 207. Telegrams—"Albert Taxlor, Bilgate, London," Cables—"Tazadoras London," Code: ABC: (5th edition.)



### Sixty Per Cent. of Your Customers HAVE BAD FEET.

Here is an enormous market for you—a wonderful opportunity to extend your sphere of usefulness. You can be thoroughly equipped to deal with every foot all nent. Are you?

Dr. Scholl's Foot Appliances and Specialties give immediate relief in all cases, and gradually restore the normal structure of the foot,

We are 12 nching a nation-wide Advertising Campaign short'y for the benest of Chemists, and are combining with it a special offer to you.

May we send you particulars.

# THE SCHOLL MFG. CO., LTD.

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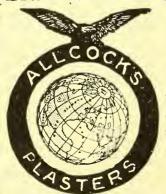
ESTABLISHED 1847.

# Allcock's

A REMEDY OF 70 YEARS' STANDING.

Allcock's Plasters
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The Three Reliables.



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### SURGICAL RUBBER GOODS

SYRINGES.
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BREAST RELIEVERS.
WHIRLING SPRAYS.
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VULCANITE.
DOUGHE FITTINGS.
SPRAY MOUNTS.
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265 Deansgate, MANCHESTER.

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Buy direct from the Manufacturer.

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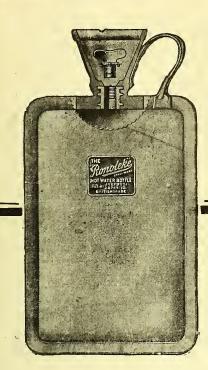
### **Bouverie Seamless Rubber Works**

GLOVES, TEATS, SOOTHERS and every description of seamless goods.

Inquiries invited.

Samples gladly submitted.

H. NORTHCROFT, 85 Bouverie Road, STOKE NEWINGTON, N.



# The Makers of The "RONOLEKE" Hot Water Bottle Apologise to the Trade

for their inability to supply the immense demand for these well-known Guaranteed Unleakable Hot Water Bottles. Their Works and Staff were engaged on urgent Government Contracts to which all their energies were devoted.

They believe, however, that the arrangements now made will enable them to overtake all demands from the Trade.

To make certain of securing YOUR supply of "Ronoleke" Hot Water Bottles, it is advisable to order from your wholesale house NOW—rather than later. They will supply you with attractive showcards and other advertising material.

### Prices of the "Ronoleke" Hot Water Bottles

Protected on the PA.T.A. List.

Size		Minimum Wholesale Prices to Retailers				M'nimum Retail Prices to Public		
6"×8"	***		4/6	•••	•••	6/9		
$6'' \times 10''$	•••		4/10	•••	•••	7/3		
$7^{\prime\prime} \times 10^{\prime\prime}$	• • •	• • •	5/-	•••	•••	7/6		
6"×12"	***		5/2	•••	• • •	7/9		
8"×10"	• • • •	• • •	5/6	* ***	•••	8/3		
7"×12"	•••	•••	5/8	• • •		8/6		
6"×14"	•••	•••	5/8	***		8/6		
8'×12''	• • •	•••	6/2	***	•••	9/3		
9"×12"	•••	•••	6/7	•••	•••	9/11		
8"×14"	• • •	•••	6/8	***	•••	10/-		
10"×12"	• • •	• • • •	7/-	•••	•••	10/6		
10"×14"	• • •	***	7/11	•••	•••	11/11		
10"×16"	•••	•••	8/6	•••	• • •	12/9		
12"×16"	***	***	9/2	•••	***	13/9		

You can get your supply of "Ronoleke" Hot Water Bottles from any Wholesale Druggists' Sundriesman.

# India Rubber Corks & Tubing

For the Chemical Trade.

SUPPLIED IN

### ALL SIZES AND QUALITIES GREY or RED.

Your inquiries solicited, upon receipt of which samples and prices will be submitted.

### GARDEN CITY RUBBER CO. LETCHWORTH, Herts.

Telephone: Letchworth 54.

Telegrams: "Rubber Letchworth."

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is a transparent film of pure Cellulose, absolutely air, grease, and odour proof, unaffected by cold, heat, or moisture, and sterilisable.

An ideal wrapping for Drugs, Tab'ets, Bath Crystals, Perfumery, Provisions, Sweets, Surgical Dressings, Articles of Toilet, &c. &c.

Will keep your Goods, Boxes, Bottles, and delicate Labels clean on the Counter and in Shop Windows, allowing the Articles to be seen by transparency. Can be had colourless, coloured and embossed.

Also in the shape of Discs for Creams, Oint ments, Boot Polish, &c.

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### The CELLOPHANE COMPANY

(LECLERCQ & CHARÉRAT),

15 Cullum Street, London, E.C. 3.

# MALIMMEDIATE DELIVERY NO. EL CONTROLLO DE LO CONTROLLO D THE



CHEAPEST &

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EFFECTIVE

CAPPING

EVER PRODUCED,

### SNOW-WHITE OPAQUE ROLLED SKINS.

SOMETHING QUITE NEW. These Skins are damp and READY FOR USE. The raw material for Baudruche manufacture being now unobtainable, I have put this new production on the market in its place. ABSOLUTELY AS OPAQUE as Split skins and equal in appearance.

"Mine beat all others."

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MEDICAL

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ALSO

Sole Pioneer and Only English Manufacturer :



### LESLIE GATES HAILSHAM, SUSSEX,

Another New Speciality .- Try my TRANSPARENT SHEEP BAUDRUCHE CAPPING SKINS.

ARRIVAL OF LIMITED STOCK OF



After being for long practically without stocks, we have now just received a limited re-starting lot, which will be equitably and proportionately distributed.

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Trade. Retail. 7/7 per doz. 9d. 12/8 1/3 25/3 2/6

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METAL CLIPS for ends of Tubes and MACHINES for fixing same.

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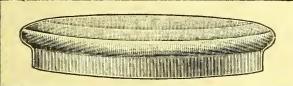
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SCREW CAPS & SMALL ROUND BOXES

IN ALUMINIUM & OTHER METALS NICKELLED ZINC

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FOR EXPORT & HOME TRADE.

WOOD BOXES AND TRAYS DESCRIPTION Partitioned Cases & Crates Benches, Tables and other Joinery Shooks and Prepared Sawn Wood

Specialities:

CHEAP, NON-RETURNABLE, COLLAPSIBLE CASES FOR HOME TRADE.



# "CORRUGATED" ROLLS AND BOXES (Collapsible)

COMPLETE PACKING SCHEMES.

Send a sample of goods you pack and we will quote you with sample packing.

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MAY WE **OUOTE YOU** 

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For PACKING

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CHEAPER AND MORE EFFICIENT THAN ALL TIN.

Prompt Delivery in Large Quantities.

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# IS YOUT INTERIOR SHOPFITT Satisfactor When the prospective enstomer walks if shop is he or she immediately influer pleasant surroundings? Fyou were in the customer's shoes would impressed by the business-like atmosphere in the customer's shoes and think we will gladly keep any appointment you fix to discuss the matter with you. HEASKIN SHOPFITTERS 20-34 Old Street, London, E. Telegrams: City 2985 (four tines). "Curvilinear, Barb, It aligned to the customer's many appointment of the customer's shoes and think we will gladly keep any appointment you fix to discuss the matter with you. The plant is the customer's shoes and think we will gladly keep any appointment you fix to discuss the matter with you. The plant is the customer's shoes and think we will gladly keep any appointment you fix to discuss the matter with you. The plant is the customer's shoes and think we will gladly keep any appointment you fix to discuss the matter with you. The plant is the customer's shoes and think we will gladly keep any appointment you fix to discuss the matter with you. The plant is the customer's shoes and think we will gladly keep any appointment you fix to discuss the matter with you. The plant is the customer's shoes and think we will gladly keep any appointment you fix to discuss the matter with you. The plant is the customer's shoes would be active to be kept waiting in patiently while the article is your assistants able to easily put the plant is shown in plant INTERIOR SHOPFITTING satisfactory

HEN the prospective customer walks into the shop is he or she immediately influenced by pleasant surroundings?

F you were in the customer's shoes would you be impressed by the business-like atmosphere?

PRE your assistants able to easily put their hand on just the article wanted, or has the customer to be kept waiting impatiently while the desired article is found?

Put yourself in your customer's shoes and think it out.

We will gladly keep any appoin ment you fix to discuss the matter with you.

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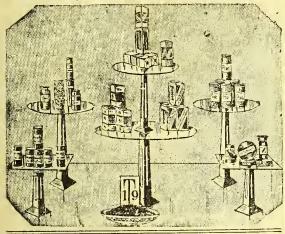
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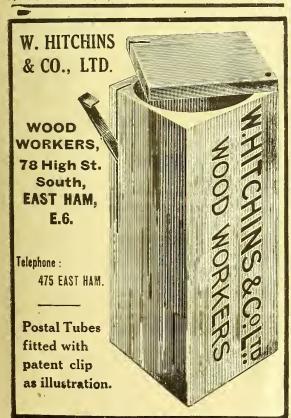
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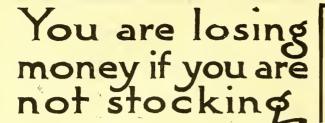
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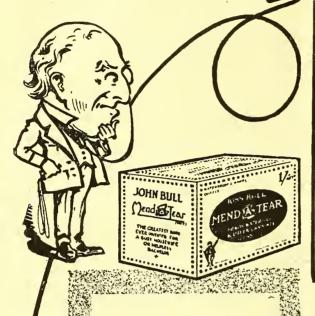
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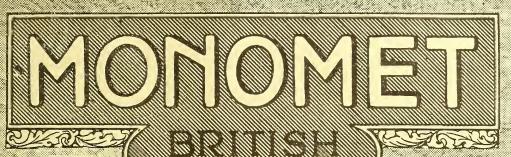
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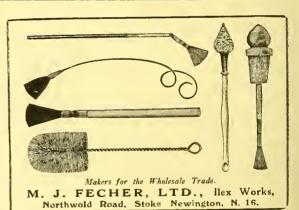
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The clerical work in connection with the posting of spare copies of the Coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note therefore that, in future, instructions can be accepted for not more than six weekly copies of the Supplement at a time, and that in every case

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7.—HOME COUNTY.—Old-established Business, chiefly ready money; returns £1,640; comfortable residence; nice garden; price about £1,000.

8.—SUSSEX (Within Easy Distance of the Coast).—Good-class Retail and Dispensing Business; established many years; returns last year between £1,800 and £1,900; net profit £576; vendor terms, £100 and valuation of stock and fixtures.

### UATIONS FOR STOCKTAKIN

Messrs. 0. & Co. desire to emphasise the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

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Telephone: 1809 CENTRAL.

### NO CHARGE TO PURCHASERS.

1.—SUSSEX.—Country town; good-class Retail and Dispensing Business; returns nearly £2,000; net profit nearly £600; low rent; fine house and garden; price £1,000; personally known to us.

2.—SOUTH COAST.—Good middle-class Retail; few patents; returns £1,850 under management; main road position; rent covered by let off; long valuable lease; corner Pharmacy; well fitted and stocked; price £1,200.

3.—MIDLANDS.—Good-class Retail and Dispensing in large important town; central position; returns over £3,000; can easily be made do £5,000; handsome Pharmacy; fully stocked; price £1,500; £500 can remain.

quiek saie only £350 cash.

6.—YORKS (W. Riding).—Inland health resort; good-class Retail and Dispensing, with stationery; returns about £700; large house, commanding corner position; price for quiek sale £250; stock and fixtures worth double.

and fixtures worth double.

7.—LONDON, S.E.—Sound middle-class Cash Retail, returning £2,300; not profit about £700; fine corner shop; main road position; well fitted and fully stocked; price £1,100.

8.—MIDDLESEX (Northern Suburb). — Middle-class Cash Retail, with Gilbey's agency; returns £1,300; scope for increase; low rent; house attached; good stock; owner retiring; price £500; personally inspected and recommended.

9.—LONDON, N.—Light Family Retail and Dispensing, with good Optical connection; returns £1,400, increasing; net profit about £40C; well fitted and stocked; small house; price £750, or near offer; recommended.

### BUSINESSES WANTED.

We have a large number of genuine buyers on our books for businesses in town, country, and seaside, from £250 to £3,000; cash ready; private register kept; intending vendors are cordially invited to correspond; established 1870.

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4s. 6d. for 50 words or less; 6d. for every additional 10 words or less, prepald.

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A BOUT one ton Pareira Root in sacks; what offers whole or part lots? Schofield, 17 Scotland Road, Liverpool.

A BOUT 5 cwt. pure white American Honey in 60-lb. tins; 102d. per lb. E. E. Russell, 17 Station Road, Letchworth,

PRYING Trays, 110, 20½"×14"×1", with strong cotton canvos bottoms; also Rack Standards for holding same, and Cabinets to hold trays when not in use; £4 the lot, f.o.r. Glasgow; cash with order. Apply 245/31, Office of this Paper.

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FOR SALE, Sales Register and Receipt-issuing Till; size, 21" by 12" by 10"; makers, British Machine Co., Halifax; complete, with set of spare type; perfect working order. Hampton, Chemist, Barton Street, Gloucester.

FOR Disposal.—½ gross Battle's Powder Dip; 10 5-lb. Cake Paste Do.; 3 1-gallon Liquid Do.; 3 doz. McDougall's 5-lb. tins Arsenic Sulphur Paste Dip; 1 doz. 5-lb. Cake Paste Dip; ½ gross Qnibell's Powder Dip; 3 1-gallon Liquid Do. Good condition. Nicholas, Pharmacy, Llandovery.

WATSON'S WATSON'S Microscope, two Eyepieces, three Objectives,  $\frac{1}{2}$ ,  $\frac{1}{2}$ , and  $\frac{1}{72}$  oil immersion, complete in case; Hearson's Incubator; set of Bacteriological Slides; all new; £25 the lot. Apply 245/12, Office of this Paper.

7 WINCHESTERS Inf. Senegge Conc., i to vii. at 5% per lb.; one Winchester of 5 lb. for 25%; 5 lb. Ext. Cinchong Līquid. for 37%. 6d.; one lb. for 8%; carriage paid, cash with order. John Noble, Pharmarist, 17 Owen's Row, London, E.O. 1.

### BUSINESSES FOR DISPOSAL.

4s. 6d. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

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ARUNDEL (three miles from sea).—Old-established, Light Retail and Dispensing Business for immediate sale; returns £1.850, increasing rapidly; good profits, and very well stocked; good house and charming garden; price £1,000, plus book debte, less 10 per cent; only applications for appointment to view same entertained. Apply S. Barker, M.P.S., Tarrant Street, Arundel.

DEVON.—Light Retail, with Optical work; attractive double-fronted shop; modern fittings; well stocked; good position on long lease; splendid opening for Dental; books open to any investigation; returns over £1,800; goodwill and lease to be agreed with valuation; genuine business; easily worked. "Optical" (247/35), Office of this Paper.

HAMPSHIRE.—Profitable Cash Business for disposal, long established, in good rising town; returns about £1,000 per annum; no side lines but plenty of scope for Dentistry, Opties, Photography, etc.; vendor retiring owing to old age; houso attached; moderate rent, or will sell premises. E. A. Scammell, Eastleigh, Hants.

LANCS.—Attractive, well fitted, and fully-stocked Drug Stores; no near qualified competition, no heavy trade; main road and constantly growing district; ample scope for extension in Dentistry, Photographio, Optics, or other side lines; good house; country district; rent £30; price, valuation of stock and fixtures, about £250; genuine opportunity. Apply "Menthol" (245/50), Office of this Paper.

INCOLN.—For immediate disposal, an old-established Retail and Dispensing Business in centre of city owing to death of principal. Inquiries of Mrs. Settle, 7 Guildhall Street, Lingoln.

KENT.—Good medium-class Business for disposal through death; returns between £1,300 and £1,500, with scope for extension; well-fitted shop, well stocked, and large residence; rent £50; N.H.I.; for quick sale £450, which is less than value of stock. Apply 247/20, Office of this Paper.

L ONDON, N.—Family Retail and Dispensing Business in sound condition; good middle- and working-class cash trade; turnover £2,000; net profit about £600; books kept; good selling Proprietaries; rent £60; new lease; living accommodation (if required), or lock-up shop; price £850, or nearest offer. Apply 248/9, Office of this Paper.

MIDLANDS.—Established Chemist's Business for sale, with Post Office; grand opportunity for energetic man; position in good working-class district; price £350. For further particulars apply in first instance to "K." (240/25), Office of this Paper.

YORK.—Compact little Business, doing £19 cash weekly at good prices; qualified man could do more; terms, small goodwill and valuation of stock and fixtures, about £250; the Property (freehold) also for sale. "Eboracum," o/o Raimes & Co., Wholesale Druggists, York.

YORKSHIRE (West Riding).—Drug Store, with Optical, Photographic, and Teeth Extracting; Dentistry could be added; none in the district; residential; established 25 years; present returns £500; neglected owing to war; good honse accommodation; suit qualified man; price for quick sale £250; worth donble. Apply 246/26, Office of this Paper.

BUSINESS doing between £1,400 and £1,500, and showing 40 per cent. gross profits: expenses only 10 per cent.; situate in London working-class district; unlimited scope for expansion; lock-up shop, room behind; elegantly fitted; price £75 and valuation, about £750. Apply 247/14, Office of this Paper.

PRUG STORES.—Healthy and pleasant neighbourhood, outer North London suburbs; no near opposition; last year's returns £450 under unqualified, inexperienced lady; rent 10s. week plus rates; living accommodation, bath; landlord's counters, etc.; house and shop fittings, lino, etc., £30; shop bottles, scales, utensils, stock, and some furniture optional. Apply 243/20, Office of this Paper.

RASHIONABLE HEALTH RESORT.—First-class Dispensing and Retail Business for disposal; returns over £4.000 at full prices; full particulars will be given to applicants furnishing references, and every facility afforded for investigation; vendors would consider part cash payment and balance in shares; an excellent opportunity for one or two gentlemen accustomed to high-class trade. Apply 247/11, Office of this Paper.

OLD-ESTABLISHED Dispensing, Prescribing, Surgical Truss, and Shipping Business; close to Central Railway Station: Apply to Proprietor, W. W. Lendbitter, 6 South Hill Crescent, States of the Control of

FOR Sale in busy London suburb as a going concern, an old-established Chemist's Business with several proprietary articles; good Prescribing connection; valuable goodwill; excellent living for live man; stock, fittings, and goodwill all at £850; a bargain; owner retiring; limited liability could be transferred. Write for particulars to "Drugs," c/o Dixon's, 195 Oxford Street, W.

SMALL Glassworks for Sale in London district; suitable for General Medical and Bottle trade. Write "L." (248/1), Office of this Paper.

### AGENCIES.

4s. 6d. for 50 words or less; 6d. for every additional, 10 words or less, prepaid.

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PORTUGAL.—Well-established firm at Lisbon with very good connection among dealers in Chemicals and Drug Products desires to Represent first-class houses manufacturing Ink Powdsrs, Chemical Colours, and Chemical Products generally, for all industries; successful results guaranteed; good references. Address 17/15, Office of this Paper.

A GENCIES wanted for Holland, Belgium, and the Continent generally by Dutchman formerly Representative of "Odol" for the Continent; coming personally to London shortly. Answers to 238/36, Office of this Paper.

CELLULOID LACQUERS, BRONZING MEDIUMS, SILVER PAINTS, ETC.—Wanted, reliable Agents to push same. Give particulars re connection Box 80, Osborne-Peacock Co., Ltd., Advertisers' Agents, Gordon Street, Glasgow.

CHEMISTS can secure exclusive local Agencies for FLUENZOL (registered), Anti-Influenza Specific, being marketed shortly, by writing to Sales Department, 35 Cromwell House, High Holboru, London, when full details will be sent.

HIGH-GRADE BOOT POLISHES, METAL POLISHES, SADDLE SOAP, ETC.—Agents or Buying Houses wanted to handle the above; only those who can do substantial business need apply; proprietary marks could be arranged for large buyers; tins could be printed in any European language for guaranteed quantities. Box 12, Osborne-Peacock Co., Ltd., Advertisers' Agents, Gordon Street, Glasgow.

PATENT MEDICINES, CHEMICALS, ETC.—Agencies in the above required by two demobilised gentlemen; University Gradnate in Chemistry (London) and sound business experience; locality no object but London and home counties preferred. Apply 240/16, Office of this Paper. Will Advertiser please send name and address to this Office.

QUALIFIED English Chemist with 12 years' experience of representing foremost American firms in the Far East, wishes to now Represent British firms of Sundriesmen, Proprietary Medicine Makers, and Chemist goods generally; no competing line carried; returning to the East July 26th, 1919. Address 243/6, Office of this Paper.

THE Anglo-French Drug Co., Ltd., desire to inform the trade that they have opened a Branch in Paris with large stock-ooms. They are therefore now in the position to offer their nique experience in introducing British goods and Specialities nto France, and would be pleased to receive proposals as to sole spencies. The Company would also act as Buyers in France for Fritish and Colonial firms on a small commission basis. Proposals, to, which will be treated confidentially, to be sent to the Head ffice, 238a Gray's Inn Road, W.C. 1.

WELL-KNOWN French Pharmaeist, with first-class business connections, proprietor of important Pharmacy in Paris, well equalited with the difficulties of French legislation, and the sploitation of foreign specialities in France, is prepared to put a the market in France the specialities of a reputable English rm. Address 219/17, Office of this Paper.

### TO LET.

CORNER Shop will shortly be to Let in best business part and most thickly populated district in St. Helens; rare pening for a Chemist; no other of any moment within a mile of e spot. Address Uveco Depôt, Corporation Street, St. Helens.

OARDING, excellent site, over 100 ft. long, to let on lease; main and local lines. Write Box No. 412, c/o J. G. King & n, 10 Bolt Court, Fleet Street, London, E.C. 4.

### BUSINESSES WANTED.

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MIDLANDS or near.—Light Retail Country Business wanted, with good house, garden, lawn, or large yard; open to part exchange present business (good house and outhouses; nearest opposition, 8 miles) with Chemist who, by dropping present side-lines, could take things easily. Morgan, Chemist, Kimbolton, Hunts.

SOUTH OF ENGLAND.—Pharmacist desires to purchase Business in healthy locality; returns about £1,000, or somewhat under; N.H.I. not objected to; must have good house accommodation attached; replies in strict confidence; oash available. Particulars to W. J. V. Fowden, 28 Turnpike Lane, Hornsey, London, N. 8.

A REALLY good Cash Retail Business wanted, situated in busy shapping thoroughfare; net profit £500-£1,000; please give, in confidence, particulars of returns, net profit, rent, lease, premises, and lowest price required; cash ready for genuine business that will stand investigation. Write "Waiting" (247/4), Office of this Paper.

A SMALL or medium General Retail Business wanted on or near coast, preferably S.W.; only essentials, a living to be made and pleasant house; can pay oash and take over immediately or wait two months; would consider opening suitable premises; references given. Particulars and price in confidence to 245/21, Office of this Paper.

BUSINESS wanted (small), with scope for increase; London, Provinces or Coast, with living accommodation; partnership or management, with view to succession entertained. Please address full particulars to "Ph.C." (247/160), Office of this Paper.

DISPENSING and Retail Business required in West-End or immediate districts; neglected business not objected to; cash to £1,000 available. Apply 233/36, Office of this Paper.

DRUG Store wanted; suit unqualified; London preferred but not necessary; living accommodation. Please send full particulars to "Cash" (244/15), Office of this Paper.

PRUG Stores wanted by unqualified, in or near London; good house with garden; price about £300. Full particulars in letter, lease, etc., to "Seeton" (244/20), Office of this Paper.

PHARMACIST requires a Business in residential suburb of London or coast town with scope for increase; house attached preferred; cash \$500, or larger one entertained if terms can be suitably arranged. Particulars in strict confidence to "Genuine" (244/7), Office of this Paper.

PHARMACIST requires a Business; London or suburbs; returns about £1,000. Full particulars to Gill (247/40), Office of this raper.

MAIL ORDER BUSINESS.—Advertiser is prepared to buy Mail Order Business, Toilet, Drug, speciality or allied trades, wholesale or Retail; give particulars of turnover, expenses, profits, etc. Apply 244/31, Office of this Paper.

WANTED, for cash, a Drug Store, in a thickly populated neighbourhood, with comfortable house attached, or a mixed country Business not objected to if conveniently situated with regard to the railway. Please send full particulars in confidence which will receive a reply, to "Drugs," 143 Castle Road, Bedford.

WANTED, good-class Drug Stores (Lancs or Midlands preferred) with good liying accommodation; strictest confidence. Apply "Aspirin," 57 Pinner Road, Sheffield.

WANTED to purchase, Mineral Water Business; allied or other manufacturing concern; cash ready; must bear investigation. Partioulars, in confidence, to 248/4, Office of this Paper.

WANTED, good-class, old-established Dispensing Business; a neglected business not objected to if prospects are good, or Managership with a view to early succession; Midlands or Coast town. Replies to "Chemicus" (248/35), Office of this Paper.

WANTED, a good-class Light Retail and Dispensing Business in a healthy locality; near London preferred, but not essential; returns not less than £1,000, with scope for increase; good living accommodation most necessary; replies treated in confidence. Apply "Alpha" (246/52), Office of this Paper.

### PARTNERSHIPS.

IN an old-established Pharmacy (North of England), an opening occurs for a person accustomed to good-class trade, to take a substantial, pecnniary and personal interest, and replace a retiring partner; all communications treated confidentially. Apply "Climax" (246/31), Office of this Paper.

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4s. 6J. for 50 words or less: 6d, for every addition | 10 words or less, prepaid

GENTLEMANLY youth wanted as Apprentice. Apply Weston, Chemist, 151 Westbourne Terrace, Hyde Park, W.

### SITUATIONS OPEN.

4s. 6d. for 50 words or less; 6d, for every additional 10 words or less, prepaid.

### RETAIL.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

BARRY, GLAMORGAN,—Manager for Light Retail and Dispensing business required shortly. State age, qualification, salary required, and full particulars as to experience, etc., enclose photo if possible, W. T. Hicks & Co., 28 Dake Street, Cardiff.

BIRMINGHAM.—Assistant for good Retail business; competent and in possession of good references. Barlow, Chemist, Balsall Heath, Birmingham.

BIRMINGHAM.—Junior Assistant (lady or gentleman) wanted; Light Retail and Dispensing; no Snnday or holiday duty. Particulars of previous experience, salary expected, and references, Raynes Dispensing Chemists, Ltd., 28 Bath Row, Birmingham.

BOURNEMOUTH.-Junior Assistant wanted (outdoors). Apply, with references, salary required, and other particulars, Geo. Taylor & Son, Chemists, Bournemouth West.

BRADFORD.—Young gentlemanly Assistant, qualified or nn-qualified, required for high-class business; easy hours; no N.H.I.; upplicants must be good Salesmen and able to take charge. Photo and particulars to 247/13, Office of this Paper:

CARDIFF.—Duck & Son require an Assistant; neat and necurate Dispenser Apply, stating age, height, experience, and salary required (outdoors).

CARDIFF.—Qualified Assistant wanted, single. Apply, with two references, salary required, and usual particulars, Frank Edwards, 192 Cowbridge Road, Cardiff.

CHELTENHAM.—Junior Assistant (male) for good-class Dispensing and Photographic business (indoors). Please send full details of experience, salary required, etc., to Beetham & Clark, Promenade, Cheltenham.

COVENTRY.—Assistant wanted; good Connterman and Dispenser; state age, experience, references, qualification (if any), salary required, and when diseugaged. Apply Bird, Chemist, Coventry,

DEVON COAST.—Unqualified; ontdoors; Dispensing and Retail with Thotography. Please give full particulars of agc, references, and salary required, 248/22, Office of this Paper.

HEREFORD.—Wanted, a reliable Assistant with good all-round experience, and special ability for Window-dressing and Counter-work; the results of a good business man would be appreciated and paid for accordingly. Apply, giving full particulars, Walter Marchant, 36 High Town, Hereford.

JERSEY.—Locum required for fortnight commencing August 11th if possible; short hours, weekly half-holiday, no Sunday dnty; please state terms and particulars. Renoufs, Ltd., 18½ & 20 Burrard Street.

LEEDS.—Capable Assistant wanted for good-class Retail and Dispensing business with Photographics. Apply, stating calary, and giving full particulars of experience, to M. E. Murray, 221 Woodhouse Lane, Leeds.

LIVERPOOL.—Qualified Munager required ead of month in good-class Dispensing business; bnying experience essential, applientions, stating age, experience, salary, etc., to 25 Moscow Drive, Stoneycroft, Liverpool.

LIVERPOOL.—Qualified Assistant about middle of Angust; goodclass business. State age, height, experieace, salary (outdoors), and references, to John Bain, 4 Quadrant, Limo Street, Liverpool.

I ONDON.—Qualified Assista... wanted; must be good and obliging Salesman; knowledge of Photography and Continental Pharmacy desirable. Apply "Secretary," Shadforth Prescription Service, Ltd., 19 King William Street, E.C. 4.

LONDON, N.-A Dispenser wanted for two weeks, commencing 27th July, by a firm of Doctors. Apply to Drs. C. B. and C., 124 Stroud Green Rond, N. 4.

LONDON, S.W.-Unqualified Assistant for evenings; near schools of Pharmacy; would suit student.-" Norvic," 170 Eustern Esplanade, Southend-on-Sca.

L ONDON, W.—Qualified, competent Assistant wunted; immediate vacancy; Counter and Dispensing. Rouse & Co., 12 Wigmore Street, W.

LONDON, W.—Junior Assistant wanted immediately (outdoors); one just out of his apprenticeship would suit; two other Assistants kept; hours 8.30 a.m. to 7 p.m. Apply, stating salary required and usual particulars, to "M." (218/8), Office of this Paper.

MANCHESTER.—A Minor qualified Assistant required, lady or genticman, with good Retuil and also Dispensing experience; in reply give full particulars of previous engagements. Apply 244/17, Office of this Peper.

MANCHESTER.—An experienced lady Assistant thoroughly conversant with high-class business required for the Retail Counter of n city business; stute fully previous experience, ngc, salary expected, and when at liberty. Apply 215/69, Office of this Paper.

MANCHESTER.—Improver wanted or young lady (Hall) for suburban Light Retuil, Dispensing, and Photogruphic business. State sulary required and enclose photo to A. A. Auger, M.P.S., 121 Manchester Road, Chorlton-cum-Hardy.

MANCHESTER.—Charles Midgley, Ltd., require Manager for City Dispensing Business. Applicants may be interviewed in Manchester or London.

MARGATE.—Immediately, till end of September, Assistaat, accustomed to good-class Retail und Dispeasing. Kindly state experience, nge, height, and salury required (outdoors), to D. T. Evans, Chemist, Margate.

MIDLANDS.—Smart Assistant required for good middle-class business; good Counterman and Window-dresser, with knowledge of Photography preferred. Apply, stating uge, reforences, salary required (outdoors), and full particulars of past experience, to 248/5, Office of this Paper.

NORTH WALES COAST.—Assistant waated for snmmer in Retail Dispensing, Photographic business; outdoors. Apply, with full particulars, salary, experience, etc., to Williams, Medical Hall, Holyhead.

NORTHAMPTON.—Capable unqualified Assistant required; good Counterman and Dispenser; single man preferred; state uge, salary required, and when at liberty. Apply 244/28, Office of this Paper.

RHYL.-Wanted immediately, experienced unqualified Assistant; outdoors; permanency; easy hours. Apply Ashfield, Rhyl.

SHEFFIELD.—Qualified Manager for branch in busy locality; fair salary and casy hours; good scope for proper man to increase business and participate in increase. Please state salary required and usual particulars to 801 Atterelific Road.

CHEFFIELD.—Qualified Assistant to manage branch; Light Retail and Dispensing; pleasant suburb. Apply, stating full particulars, age, experience, salary required, to 247/37. Office of this Paper.

OUTH WALES.—Unqualified Assistant with good Diepeasing and Counter experience; permanency; state age, whether married, and salary required. Apply 244/2PO Office of this Paper.

SOUTH WALES.—Qualified Manager for branch in health, and pleasant mining district; easy hours; no Sunday duty; good salary to an energetic and thoroughly reliable man; kiadly give full particulars first letter, age, experience, references, etc. Apply "Cymro" (246/29), Office of this Paper.

WESTMINSTER.—Wanted (at once), reliable Assistant; accustomed to first-class Dispensing and Retail business; personal application preferred, or write full particulars to W. H. J. Perrett, 90 Victoric Street, S.W.

A WELL-KNOWN firm of Company Chemists require the services of a capable qualified man, with some knowledge of Photography, as Manager in London district; must have good references. Apply "Business" (245/4), Office of this Paper.

A SSISTANT, unqualified for good-class suburban business, with some knowledge of le pensing and Photography. Usual particulars and salary assed to Makepeace, 28 Dacros Road, Forest Hill, S.E.

A SSISTANT; qualified or unqualified; temporary or permanent.

Apply personally or wilte full particulars to B. Hooper & Co., 43 King William Street, L.C. 4.

A SSISTANT, for good-class Dispensing Business; gentleman or lady; required principally for Dispensing and preparation of Galenicals; one other assistant kept. Apply, with particulars of age and ability, to E. L. Slade, 3 Station Parade, Kew Gardens.

A SSISTANT required; capable of taking charge; easy hours; must produce undeniable references. State salary required (outdoors), T. A. Morgan, Chemist, Hampstead Road, N.W. 1.

A SSISTANT (outdoors); good Salcsman and Window-dresser. Full particulars first letter, Shackleton, Hereford.

 ${
m A}$  SSISTANT at once; outdoors. State wages and experience, etc., William F. Cole, 2 Commercial Road, Lowestoft.

CHEMIST, quaified, young, required shortly for a good, brisk trade, N.H.I. Dispensing and General Retail; quick, smart, clean, active worker. Give full particulars first letter, age, salary required, and experience; good prospects for the right man. Apply to J. D. Furnival & Co., Ltd., 3 Market Square, Hanley,

CHEMIST wanted for the Darlington Friendly Societies' Medical Association. For particulars apply Geo. M. Hillary, 13 Greenbank Road North, Darlington.

PLDERLY Chemist required as Superintendent N.H.I. Dispensing and General Retail; comfortable, permanent berth to the right man; full particulars and salary required with past experience and references. Apply J. D. Furnival & Co., 3 Market Square, Hanley, Stoke-on-Trent.

JUNIOR or Improver wented for good-class business, Croydon; good prospects for steady and reliable applicant (outdoors); duty daily 8.30 till 8 p.m., Wednesday 1 p.m. Apply 242/19, Office of this Paper.

JUNIOR Assistant required (immediately), Nottingham. Apply, with full particulars, "Celeritas" (245/20), Office of this Paper.

JUNIOR Assistant (male) required about end of August; good Retail and Dispensing experience essential. Apply, with full particulars, stating salary required (outdoors), to Gould & Co., 23 North Audley Street, London, W.

LOCUM required for two weeks from August 7th; Light Retail; 30 miles from London; Assistant kept. Apply 243/5, Office of this Paper.

OCUM, qualified, wanted, for 6 weeks, from about July 28; outdoors; comfortable position; lady or gentleman. Kindly give full particulars to Wain, Chemist, Ripley, Derby.

OCUM-DISPENSER (lady) wanted for Doctor's practice for three weeks from August 15th; previous experience in private practice necessary; country town (Hertfordshire), one hour from Euston. Apply 235/18, Office of this Paper.

MANAGER, qualified, for small branch in Oxford; good opening for business man with good reference who requires permauency. State salary and usual particulars, and enclose photo, to The Oxford Drug Company, Limited, Old Established Family

MANAGER (qualified) required in about two weeks' time for easily worked branch in Sheffield; good comfortable berth. State ealary required and usual particulars to A. R. Powell, 125 Upwell Street, Sheffield.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist; easy hours; good and progressive salary, with excellent prospects; free removal.

QUALIFIED Manager required for Light Retail business; sole eheroge; permanency; easy hours. Write, giving full particulars to R. P. Chantler, Ltd., 34 Manchester Street, Luton, Beds.

QUALIFIED Chemist to manage branch where there is some Insurance Dispensing; good-class cash business; casy hours, no Sunday or night duty. Applicants must state full particulars of experience, age, and salary required, to Martyn's Stores, Ltd., 26 Queen Street, Wolverhampton.

QUALIFIED man wanted (immediately) for General Retail and Dispensing. Apply, with full particulars and salary re-quired, to Colmans, 322 Ashton New Road, Bradford, Manchester.

QUALIFIED Manager required for City business; must be energetic and good organiser. Apply, with full particulars, to 246/8, Office of this Paper.

QUALIFIED (or registered) Chemist wanted for middle-class business. Hours, 9-7 Monday, Tucsday, Wednesday; 1 p.m. Thursday; Friday, 8 p.m.; Saturday, 9 p.m. Would suit elderly man. Easy and comfortable position. Seaside. State salary (outdoors) and usual particulars and references, Richmond (246/20), Office of this Paper.

QUALIFIED Assistant; married man preferred; salary £4 c week; unfurnished house free; no rates or taxes except gas. Butcher & Pattison, Cheltenham.

QUALIFIED Locum wanted for Infirmary for three weeks; hours 9.30-5, Saturdays 9.1, no Sunday; £4 48. and dinner daily. "R.," 23 Stamford Brook Road, W. 6.

QUALIFIED.—Two qualified Branch Managers required; good-class Light Retail; good prospects for business men. T. A. Harrison, Pharmaceutical Chemist, Goodmayes, Ilford.

QUALIFIED Assistant required for end of July. Courtenay, 3 High Street, St. John's Wood.

SAVORY & MOORE, LTD., Lancaster Gate, London, W. 2, require the services of a qualified Assistant (gentleman); age not over 35 (outdoors), with first-class Dispensing and Counter experience. Fu'll particulars to the Manager.

SEASON berth, with possible permanency, for competent Junior; must be quick and accurate Dispenser; congenial duties; facilities for all-round experience. Full particulars first letter, stating salary (outdoors) and include photo, Body, Broadway, Southend-on-Sea.

TEMPORARY Assistant wauted (holiday relief) at Hampstead; full or part time (mornings), August 9-23. S. E. Amos, 10 Limes Road, Weybridge.

### THE TECHNICAL COLLEGE.

Principal: Charles Coles, B.Sc. (Lond.).

THE services of a Full-time SECOND LECTURER are required in connection with the School of Pharmacy, a Department of the Technical College to be opened in September next. Subjects required: Pharmacy, Materia Medica, Practical Dispensing, and Latin.

Subjects required.

pensing, and Latin.

Commencing salary, £300 per annum.

Applications, on foolseap paper, stating age, full qualifications, teaching, and other experience, and giving copies of not more than three testimonials, should reach the Principal on or before Wednesday, July 16, 1919.

JOHN J. JACKSON, B.A.,

Director of Education.

THE Friendly Societies Medical Institute, Northampton, require a qualified Locum Dispenser, male, August 18th to September 1st inclusive. State experience, qualifications, and salary required to Dispenser, 157 Colwyn Road.

THOROUGHLY qualified Dispenser required for good-class business; one capable of taking entire charge of department preferred; no Sunday work, close at 6, Wednesdays at 1; qualified Locum also required. Write fullest particulars to Junior Army and Navy Stores, Ltd., York House, Aldershot.

UNQUALIFIED Assistant for good-class Dispensing business: comfortable berth to a willing man. Apply Cook, 74 Mountgrove Road, Finsbury Park, N.

W. MALDEN & CO. require a well recommended gentleman as Locuiu for four weeks commencing July 21st or 28th, at 205 Brompton Road, S.W. 3.

WANTED, Locum. Please state age, salary required (outdoors), and give references, 243/4, Office of this Paper.

WANTED, qualified Assistant, either sex; Counter experience necessary; must be energetic and reliable; hours of business 8.30 to 7, Saturdays 8, half-day holiday, no Sunday duty. Apply, giving full particulars as to referencee, experience, and salary required, to Moores (Chemists), Ltd., Freeman Street, Grimsby.

WANTED, qualified Locum for Dispensing, male or female, from August 5th to 20th inclusive; hours 9 until 5, no Sunday duty, half-day Saturday; wages £3 10s. per week, with dinner daily. Send copies of recent testimonials. Apply Medical Superintendent, Monsall Fever Hospital, Manchester.

WANTED in a good-class business, no N.H.I. and easy hours, a Junior or Improver. Apply, with particulars, to Ekins & Fisher, Market Place, St. Albans.

WANTED, au experienced Locum, for month of September. Ylease apply, with references, to Hitchman, Chemist, Gold Street, Kettering.

WANTED, a Lady Dispenser, from July 19 to August 6; hours, mornings 10-12, evenings 6-9. Dr. Johnson, 46 Packington Street, Islington, N. 1.

WANTED, Managing Assistant; qualified; London and provincial experience; knowledge of Optics and Photography; good salary and prospects. Apply W. Bates & Co., Ltd., Sonthampton.

YOUNG lady required as Dispenser and to assist at Connter; Hall qualification. Apply, with usual particulars as to salary required and references, W. Ellis, 111 High Road, Ilford.

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4s, 6d, for 50 words or less; 6d, for every additional 10 words or less, prepaid

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

### THERE IS A VACANCY

on the publishing staff of

### THE CHEMIST AND DRUGGIST

for an Assistant with an all-round knowledge of the Drug trade. He must be young, possessed of business instinct, have experience of modern methods, and be capable of dealing with commercial correspondence. Preference would be given to a registered Chemist and to a man who has served in the war. Applicants should give full particulars (by letter only) of their qualifications, stating salary required, to M. B., 42 Cannon Street, London, E.C.

A SMALL Wholesale firm of Chemists require the services of a qualified gentleman to superintend the manufacturing department and to act as General Works Manager; must not be afraid of work. Apply, stating full particulars, 246/22, Office of this Paper.

A SSISTANT required, used to Wet Counter, for factory in N. London. Write, stating age, experience, and wnges required, to "F. R." (217/53), Office of this Paper.

A YRTON, SAUNDERS & CO., LTD., Liverpool, require a capable Assistant for their Export Department; age about 25; must have thorough knowledge Retail Drug trade; previous export experience desirable but not essential. Full particulars in first instance to Export Manager.

A GENTLEMAN of good education, about 35, with a thorough knowledge of the Drug trade, especially office management, for a responsible post in an export and Mannfacturing Druggists; only those with first-class similar experience entertained; liberal salary and prospects for a really capable and energetic man. Apply, stating full particulars of experience and qualifications if any, also commencing salary looked for, to "L." (216/15), Office of this Paper.

CENTLEMAN able to look after the Sales Department of small Toilet and Perfnmery Department; snit elderly Chemist with the requisite knowledge desiring a light and permanent position. Apply, with particulars as to qualifications, salary, etc., to 216/55, Office of this Paper.

LABORATORY Assistant, thoroughly expable man, for making and coating pills and tablets; liberal terms to competent man. Apply 216/73, Office of this Paper.

TADY Manager wanted for Packing Departments; must be familiar with modern packing methods for drugs and foods, able to supervise costing wage payments, etc., and to control large staff of girls. State experience and salary required to Goodall, Backhouse & Co., Leeds.

IVE Representatives wented for Ireland, Scotland, Somersetshire, borsetshire, Warwiekshire, Derbyshire, and Staffordshire; salary and commission to snitable applicants. Write "A, B, C," e/o Anderson's Advertising Agency, 14 King William Street, Strand.

PROVINCIAL House requires experienced Pan and Still Man. State wage required, references, and when at liberty (confidential), 218/24, Office of this Paper.

REPRESENTATIVE for Ireland (salary and commissiou).—
Wanted (at once), a first-class man by up-to-date Manufacturing concern; thoroughly well known to Chemists, and capable of doing big figures in Toilet, packed, and allied goods; must be energetic, rehable, steady, and character bear strictest investigation; reference given to Irishman fulfilling above qualifications; good prospects to the right type of man. Apply, with some idea as to salary and fullest particulars, age, etc., to "Dolphin" (217/34), Office of this Paper.

REPRESENTATIVES, having thoroughly sound and up-to-date connection with Pharmacists in each of the areas listed below, required at once by firm of Wholesale Chemists; the positions offer excellent prospects to suitable men with good experience, and living within the area of the ground. (1) Bristol and Sonth Wales district. (2) Birmingham and Midlands. (3) Newcastle district. (4) Lancashire and district. (5) Yorkshire and Lincolnshire. (6) South-Western districts. Apply, giving full particulars and salary required, to 217/71, Office of this Paper.

RESIDENT Representatives wanted for Edinburgh and district and Glasgow and district; salary and good commission to suitable men. Write "G. B.," c/o Anderson's Advertising Agency, 14 King William Street, Strand, W.C. 2.

SALESMAN.—A leading progressive Pharmacentical Speciality house is open to engage the services of a really live, eapable Representative; mnst have had experience and willing to cover industrial districts; please give full details, in confidence, salary, age, experience, etc. Apply "L." (215/16), Office of this Paper.

TOOTH Pastes and Toilet lines generally; first-class man required in provincial house. State experience and salary expected, "L." (218/6), Office of this Paper.

TRAVELLER wanted for the North of England district, Northumberland, Durham, for packet Toilet goods; could be worked with one other non-clashing agency. Particulars and terms to White Band Mfg. Co., Ltd., 20/6, Pump Pail, Croydon.

TRAVELLERS, with connections among Chemists and Hairdressers, required for new patent in great demand. Letters only, P., Fulwood House, High Holborn, W. 1.

TRAVELLER wanted, with good connection, calling on Druggists' Sundry, Surgical Instruments, and Allied Houses; Wholesale only (not Chemists); for Great Britain, but not London; one other house not objected to; good references required. Apply Box 210/68, Office of this Paper.

WIGGLESWORTH, LIMITED, West-houghton, Lancs, desire the services of n first-class man for the manufacture of Toilet preparations, etc. State full particulars, including age, salary, and experience, in confidence.

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BRITISH GUIANA.—Qualified Chemist, smart and active, experienced in storo methods, as Mnnager for Wholesale, Retail, and Dispensing business, established 1844; Government Contractors; four Assistants kept; comfortable quarters and lighting provided; would snit young, energetie, married man; healthy climate; present Manager has resided in the Colony nearly 20 years, enjoying excellent health; salary £250 per annum, rising to £300, payable half-monthly; three years' agreement; permnnency and prospects to good man; passage paid out and home on completion of agreement. Apply to "M. H.," Export Department, S. Maw, Son & Sons, Ltd., 7-12 Aldersgate Street, E.C.

FEDERATED MALAY STATES.—Qualified Assistant; unmarried; must have had good experience in retuil; terms three years' agreement; salary 350, 400, 450 pounds sterling per annum; passage paid second class out and home; short hours; good climate; the firm one of the largest in the East; and the position and surrounding country most attractive. Apply Dakin Brothers, Ltd., 82 Middlesex Street, E. 1.

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HONG KONG.—Qualified Chemist for large Dispensary; must be single, abstainer, have had good Counter experience; five years' agreement; salary £30, £32 10s., £32 10s., £35, £35 per month, two weeks' holiday, 2½ per cent. bonus on net profits of the Company, passage paid out and home. Apply, with copies of testimonials, to "G. K." (216/160), Office of this Paper.

NDIA.—Representative, single, qualified, wanted by firm of Manufacturing Chemists to travel in India and the East; good prospects for capable and energetic man; personal interview necessary. Apply with full particulars of ago, previous experience, etc., to "L." (214/28), Office of this Paper.

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A CCOUNTANT; willing to keep Books; monthly balance shects; absolute secrecy guaranteed; save endless worry. Write full particulars, Moore, 34 Coleman Street, E.C.

A DVERTISER, unregistered but competent, requires berth, Assistant or would do Locum; disengaged; experienced 30 years; good references. Apply Wallace, 21 Bold Square, Chester.

A DVERTISER, 42, unregistered but competent, requires permanent berth, Manager or Assistant; good references; end of July or early August. Apply "Salol," 30a Whatman Road, Honor Oak Park, S.E. 23.

A DVERTISER, age 34, Salesman or Dispenser, Hall qualification, 18 years' good and varied experience, desires change. 'Reliable" (246/39), Office of this Paper.

A DVERTISER (36); disengaged; Manager or Locum; good experience and Dental knowledge; part-time not objected to; unqualified. "Rhei" (246/33), Office of this Paper.

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AS Manager or Locum; qualified; experienced; disengaged. "Linum," 2 The Lodge, Richmond Road, W. 12.

A S Assistant or Manager, in good-class Retail; qualified, reliable; accustomed to take charge. Miss Lord, 34 Avenue Road, N.W. 8.

 ${\bf A}^{\,{
m S}}$  Locum; permanency; excellent references and experience. Chemist 23A Sinolair Gardens, Kensington, W.

AS Manager or Locum; disengaged July 28th; 36; qualified; reliable, thorough all-round experience; references; Notts, Derby, Leicester, or Lincolnshire preferred. Apply 246/27, Office of this Paper.

A SSISTANT, disengaged August and September; unqualified; 57, married (no family); 19 years' experience Dispensing, Surgical, Photographic; Southern Counties or coast preferred. Apply 243/22, Office of this Paper.

 $\mathbf{A}^{\rm SSISTANT};$  30; first-class experience all branches; keen Salesman; W. or S.W. London preferred; excellent references; disengaged. Apply 242/34, Office of this Paper.

A SSISTANT, unqualified, 26, desires post; highest references; Manchester or district. 245/34, Office of this Faper.

A SSISTANT, unqualified, 24, just demobilised, desires situation; good Counterman and Dispenser; knowledge of Photography. Apply 246/30, Office of this Paper.

BIRMINGHAM DISTRICT.—Junior; smart, quick, and reliable; excellent Dispenser and Counterman; would take Locum for August. "Aspirin" (245/6) Office of this Paper.

BRANCH Manager or other capacity; qualified; middle-aged; active; disengaged. Rees, 8 Salisbury Road, Brislington,

BRIGHTON or vicinity preferred, but not essential; unregistered; 56; married; active, reliable, trustworthy, and obliging; good all-round experience; desires change; kindly state hours and salary. Apply 247/5, Office of this Paper.

CHEMISTS' Stocks taken or priced out, cheaply and accurately; "U.S.A." (246/70), Office of this Paper.

DEMOBILISED; unqualified; 26; first-class pre-war experience, seven years; Photography, Locum or until October 1st; London or district. Findiay, Burnham, Som.

DEMOBILISED, unqualified, 26, desires employment Exhibition during week; afterwards Doctor or Chemist (Registered Dispenser); reliable, experienced; knowledge Photography, Window-dressing, Bookkeeping. Hiles-Smith, 11 Elsworthy Terrace, Primrose Hill, Hampstead, N.W. 3.

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DISENGAGED now; Assistant; unqualified; reliable; good all-round experience, Counter, Dispensing, Buying, Photographic, Window-dressing; outdoors; tall, active; 47; married; permanency preferred if house obtainable; satisfactory references; not afraid of work. "Quinol" (246/4), Office of this Paper.

DISENGAGED until July 19th and from August 10th; Manager or otherwise. Bedding, 10 Ponsonby Terrace, Westminster, London.

DISENGAGED afternoons only; as Dispenser to Doctor preferred; Clapham Common or near. Apply 248/30, Office of this Paper.

DISPENSER (Hall), C.M.B. Nursing experience, desires post; Doctor or Institution. Apply 244/29, Office of this Paper.

DISPENSER.—Lady Locum, unqualified, capable, requires post for August. "Letter," 50 Durlston Road, Upper Clapton.

DISPENSER-BOOKKEEPER (Hall); experienced; unfurnished residence at Branch Surgery or shop preferred. Apply 237/240, Office of this Paper.

DISPENSER-BOOKKEEPER, Hall qualification, fluent French, desires post; Doctor, Hospital, or Institution. Address Miss Millard, 88 Walton Street, S.W. 3.

DISPENSER-BOOKKEEPER, Hall certificate, experienced, desires post; Doctor or Institution; London preferred. Apply Miss S., 103 Claremont Road, Forest Gate, E. 7.

ELDERLY retired Chemist with good health, active habits, and varied up-to-date experience seeks easy or part-time employment (outdoors) in N.W. London. Apply 243/23, Office of this Paper.

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EXPERIENCED Dispenser (Hall); part time to medical men; Richmond, Putney, or neighbourhood; disengaged. Dispenser, 355 Upper Richmond Road, East Sheen, S.W. 14

EXPERIENCED capable Assistant, accustomed to take charge, wants good permanency; 42; unqualified; 25 years' first-class experience all branches; 12 years' previous post; highest references; disengaged end of month; outdoors. "Reliable" (246/23), Office of this Paper.

 $F^{
m REE}$  July 22-29, Manager-Locum, "Major," 281 Forest Road, Walthamstow.

If you require the services of an unqualified but capable Assistant with selling ability, West-End experience, French spoken, Photographies, and nrine analysis, Locum or permanency enterbained, minimum salary £4, kindly write 244/13, Office of this Paper.

JUNIOR, two years in Cash Retail, seeks situation where he would obtain Dispensing experience. "Russell" (242/35), office of this Paper.

L ADY Assistant; six years' experience; good references. Apply 243/24, Office of this Paper.

LADY Dispenser (Hall), excellent experience, desires post by seaside for August and September; part-time preferred. Apply 244/58, Office of this Paper.

LADY Dispenser, Hall qualification, requires post; preferably with Doctor. Road, St. Albans. Apply "Hall," St. Columb Lodge, Avenue

LADY Dispenser (Hall diploma), three years' experience with West-End Chemists, requires post in London with Doctor or Chemist. Apply L. A. Hoard, 156 Elgin Avenue, W. 9.

L'ADY Dispenser-Bookkeeper desires re-engagement with doctor;
Hall certificate; 4 years' experience. Particulars, salary,
etc., R., 4 Rectory Cottages, Rickmansworth, Herts.

LADY (entered for July Hall exam.) requires post as Dispensing Assistant for August. M., Hope Villa, Percy Road, N. Finchley.

TADY Dispenser (Hall diploma) seeks engagement (at once) as Assistant; with Doctor, Chemist, or Hospital. Miss Park, 86 Angell Road, Brixton, S.W.

L ADY Dispenser (Hall) requires post in good Pharmacy; Westcliff, South, or S.E. Coast preferred; reliable; good references; free now; moderate hours. Apply 248/10, Office of this Paper.

LADY Dispenser (Hall) desires post; Doctor or Institution; good references; Manchester district preferred. Apply "B.," c/o J. C. Arnfield & Sons, Limited, Stockport.

LADY, experienced Fitter, belts, \*trusses, etc., desires immediate position; good worker; has had Dispensing and Counter experience; part time entertained; London. 248/26, Office of this Paper.

IVERPOOL.—Minor Student requires Locum or Dispensing; month from July 21st; interview. Terms, etc., "Chemicus," 16 Catherine Street, Liverpool.

L OCUM or otherwise; unregistered; 43; highest references; capable of taking charge; state salary. "Aspirin" (242/7), Office of this Paper.

LOCUM Dispenser; qualified; experienced; disengaged 21st. Apply 244/19, Office of this Paper.

LOCUM; 35; qualified; reliable; experienced London and provinces; well recommended; vacant dates from July 14th to August 9th only. "A." (244/18), Office of this Paper.

L OCUM, unqualified, open for engagements till October; thoroughly experienced Counter and Dispensing; capable taking charge. "Statim," 29 Keswick Road, Blackpool.

LOCUM; over 30 years' experience; qualified; dates in August only vacant. Address M. Smith, General Dispensary, Silver Street, Lincoln.

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L OCUM, lady (Hall), desires fortnight's engagement; seaside or near. "Cassia" (242/38), Office of this Paper.

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LOCUM; qualified; open August 4 to 16, and from September 8; London preferred. McCorquodale, M.P.S., 63 Glenmore Road, N.W. 3.

L OCUM or Manager; unqualified; 14 years' experience; Optics and Photography. "Bellad," 35 Elm Road, Plymouth.

L OCUM; qualified; engagements from August onwards. Webber, 16 Argyle Street, Bath.

LOCUM; qualified; experienced; abstainer; diseugaged July 28-August 9. S. S., c/o Messrs. Goddens, 220 Hither Green Lane, Lewisham, S.E.

L OCUM (30); qualified; reliable; disengaged July 19 to August 9. Howarth, 62 Dugdale Road, Burnley.

L OCUM Dispenser, or permanency; daughter of medical man; quick, reliable, punctual; references 3½ years and 1½ years. "Cyclist," The Willows, Hailsham, Sussex.

L OCUM or permanency; 42; qualified; disengaged; high-class Dispensing and Retail experience. "Chemious," 72 Derby Road, Nottingham.

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LOCUM; 35; August; 7 guineas; or Manager, view succession; #40 weekly; London near; reliable; abstainer; experienced. "Latcowna," 45 Onslow Road, Richmond, S.W.

CCUM or permanency; qualified; 45; disengaged; euergetic; accurate Dispenser, Prescriber; Photography; Windowdresser; good Counterman. Swanson, Falkwood, Queen's Road, Kenilworth.

LOCUM; unqualified; 43; August or September; North of England preferred. Apply 246/35, Office of this Paper.

LOCUM (51); qualified; first-class experience and references; free July 21st. Apply 248/20, Office of this Paper.

L OCUM; qualified; free July 21st. "Phenacetin" (248/39), Office of this Paper.

L OCUM; July 15 to August 2, September 10 onwards; just resigned permanency; highest recent references; unqualified; town or country. "Relfable" (248/23), Office of this Paper.

L OCUM Dispenser, lady (unqualified), requires post with Doctor or Chemist for August. Apply "E. R." (246/24), Office of this Paper.

M.P.S. married, experienced, gentlemanly, wishes perhours; moderate salary accepted; has some knowledge of Optios; please give full particulars. "Farmakal" (244/26), Office of this Paper.

M.P.S. requires Managership; high-class Retail, Dismarried; last post held seven years, previous posts four and seven years. Bennett, 124 High Street, Colchester.

MANAGER or Senior Assistant; high-class Dispensing, Retail, and Optical experience; highest references; unqualified; please state salary. "Sumbul" (244/37), Office of this Paper.

MANAGER, qualified, 51, with view to succession or interest preferred; first-class experience in all branches; excellent references and thoroughly competent; temporary engagement not objected to; free July 21st. Apply 245/19, Office of this Paper.

MANAGER, 14 years in present situation, seeks a change; of this Paper. (242/36), Office

MANAGER; London or near; qualified; married; disengaged.
Details to D. O. C., 26 Fox Hill, Norwood, S.E. 19.

MANAGER; Major Square-man; 45; abstainer; Ucalite; highclass Dispensing; fashionable health resort; country; Photographic, Optical experience; Yorkshire or North preferred; permanency; disengaged shortly. Rennie, 138 High Holborn.

MANAGER or Senior; capable; London and provincial experience; thorough knowledge of Optics and Sight-testing, in addition to Pharmaceutical experience; married; good references; State terms, etc., "Owen Deed," Wespelaer, 1 Hawthorn Road, Bexley Heath, Kent.

MANAGER; experienced; elderly; locum or permanency; disengaged. Apply 247/26, Office of this Paper.

OFFICER demobilised, age 29, married, unqualified, excellent references, thoroughly competent, eight years' experience, accurate Dispenser, good Salesman, desires situation until October; S.E. London preferred. Apply "Buchu" (245/15), Office of this Paper.

PHARMACEUTICAL Chemist (31), having disposed of own business, desires Monagership; partnership or with view to succession entertained. Please address particulars, 247/16, Office of this Paper.

POSITION required as Assistant Dispenser to Doctor or Chemist;
Hall certificate; North London preferred. 3 Meadowcroft
Villas, Green Lanes, Palmer's Green, N.

QUALIFIED, 39, as Locum; disengaged July 28th to August 8th, both dates inclusive, and after September 1st. Apply 244/22, Office of this Paper.

QUALIFIED; branch Management or Senior, 14 years' former; reliable, successful; permanency; 43, married. "Hexa" (244/12), Office of this Paper.

QUALIFIED (39), just demobilised, desires position of trust; extensive experience; West End and Continent; Wholesale and Retail; fluent French; used to high-class international Counter work. Offers to "Pharmacien" (246/15), Office of this

SENIOR Assistant in a high-class Pharmacy would be glad to relieve another going on his holidays, for a fortnight in July or beginning of August; highly recommended by present employer. Reply 248/11, Office of this Paper.

SOUTH WALES.—Assistant, unqualified, seven years' experience, desires situation for three months. Evans, 10 Elm Street, Ferndale.

TEMPORARY Manager or Assistant, qualified, desires engagement or part till end of September; capable, trustworthy; London or district. "Aspirin" (244/33), Office of this Paper.

UNQUALIFIED, 26, disengaged until July 27th, open to accept permanency from August 15th; accustomed to good class Retail Dispensing business; state offers. Apply 244/11, Office of

UNQUALIFIED; 27; part-time; in or near Bradford. Nicholls, 112 Argyle Street South, Birkenhead.

UNQUALIFIED Dispenser, demobilised, married, 24, desires post with Doctor or Chemist; excellent reference; six years' experience, three years with Army; knowledge of Photography; good Counterman and Window-dresser. Owen, Pelham Mount,

UNQUALIFIED, gentlemanly Assistant (38), demobilised, desires permanency; comfortable home; 15 years' high-class Dispensing and Retail. Littleboy, 44 St. Giles' Street, Norwich.

WANTED, situation as Assistant; excellent experience Retail,
Dispensing, Photography; unqualified; available immeliately. Apply 241/39, Office of this Paper.

WOMAN Chemist wants Locam work (now) in London district; disengaged until August 4th; Hospital or Retail. Apply 248/29, Office of this Paper.

YOUNG lady desires post as an all-round Assistant; disengaged the latter part of August; Cambridgeshire or Suffolk preferred. E. Floyd, c/o Mrs. Brown, Emery Cottage, Cornfield Road, Reigate.

YOUNG Lady, Hall qualification, studying for Minor, desires post for one month; good Dispenser and Counter hand; excellent references. D. H., 38 North Side, Clapham Common.

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A DVERTISER of wide commercial experience seeks responsible position with progressive manufacturing firm desiring extension, reorganisation, or efficient service in any department; accustomed to large factory and office administration; can invest £1,000 if desired; any locality. Apply 231/2, Office of this Paper.

A DVERTISER, ex-officer, capable controlling or organising costs department, conversant with manufacture of Drugs, Chemicals, and Toilet preparations, desires post with Wholesale firm. Apply 248/28, Office of this Paper.

A SSISTANT (30) desires post as Representative; Drngs, Sundries; keen Salesman; highest references. Apply 242/340, Office of this Paper.

PHARMACEUTICAL Chemiet, with 15 years' experience in the Manufacture of Galonicals, requires position of responsibility in the Wholesale. Apply 246/10, Office of this Paper.

TOILET Soaps, Perfumes, Toilet Specialities.—Representative, at present with leading well-known firm manufacturing above well-advertised lines, and shortly at liberty, desires similar position with equally prominent firm; first-class connection with all Pharmacists and best buyers in Lancashire, Cheshire, Staffordshire, North Wales, and Isle of Man; capable of showing big turnover, and not afraid of work; references to satisfy keenest inquiries. Leading firms, manufacturing reliable, attractive and advertised lines, desiring representation, please address "Savons" (245/16), Office of this Paper.

YOUNG man, age 26, seeks situation with a Wholesale Chemist or other; knowledge of Drugs, Patents, and Packed Goods. Apply C. G. Payne, 18 Harpour Road, Barking, Essex.

### SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

RANCE or BELGIUM.—Advertiser desires permanency English Pharmacy; 20 years' good-class experience, Londo and provincial. Apply "D. E." (244/32), Office of this Paper.

In Paris; qualified; 30; 10 years' highest-class West-End experience; little French; disengaged. Apply 246/3, Office of this Paper.

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